JVC



RC-M70L/LB

FM-MW-LW-SW1-SW2-SW3 6-BAND STEREO RADIO CASSETTE

RECORDER





Contents

Page	Pag
Specifications	Circuit Board Assemblies (Power Supply, Jack,
Operating Principle of MULTI MUSIC SCANNER	Auto-stop, MMS Switch, MMS LED, Metal LED
(Automatic program selection facility)	and Stereo LED, Motor)
Block Diagram of MMS	Amplifier and Muting Circuit Board Assemblies 2
Main Parts Location4	Wiring Connection
Removal of Parts5	Exploded Views of Main Chassis Ass'y
Removal of Parts of Cassette Mechanism 6	Exploded Views of Amplifier Chassis Ass'y
Specifications of Cassette Mechanism 6	Exploded Views of Front Cabinet (RC-M70L)
Adjustment of Cassette Mechanism	Exploded Views of Rear Cabinet (RC-M70L) 30
Adjustment of Cassette Recorder Amplifier	Exploded Views of Tuner Chassis Ass'y and
Exploded View of Cassette Mechanism	Power Supply Ass'y (RC-M70L)3
Parts List of Cassette Mechanism	Final Packing Ass'y (RC-M70L)
Tuner Alignment	Accessories (RC-M70L)
How to Engage Dial Cord	Exploded Views of Front Cabinet (RC-M70LB) 39
Block Diagrams12	Exploded Views of Rear Cabinet (RC-M70LB) 42
Schematic Diagram of RC-M70L/LB (Tuner) 13	Exploded Views of Tuner Chassis Ass'y and
Schematic Diagram of RC-M70L/LB (MMS Control) 14	Power Supply Ass'y (RC-M70LB)43
Schematic Diagram of RC-M70L/LB (Amplifier) 15	Final Packing Ass'y (RC-M70LB) Back cover
Tuner, Volume and	Accessories (RC-M70LB) Back cover
Switch Circuit Board Assemblies16	

Specifications

DIMENSIONS: 55.4 cm(W) x 30.3 cm(H) x 15.1 cm(D) WEIGHT: Approx. 9.0 kg (with batteries)

TIMED	SECTION	
IUNER	SECTION	

Frequency Ranges 88 - 108 MHz ·FM Speakers : 16 cm (6-1/2") x 2, 5 cm (2") x 2 MW 540 - 1600 kHz **Power Output** : Max. 30 W (15 W + 15 W) 150 - 350 kHz LW Input Jacks : MIC x 2 (low impedance)

SW1 2.3 - 6.0 MHz Phono x 2 (3 mV, 47 k Ω) SW2 5.95 - 6.2 MHz **Output Jacks**

: Ext. Speaker x 2 (8 Ω) SW3 6.0 - 18.0 MHz Headphones (8 - 32 Ω)

AMPLIFIER SECTION

RECORDER SECTION Input/Output Jack DIN Tape Speed : 4.8 cm/s (1-7/8 ips)

POWER CONSUMPTION: 47 W (L), 44 W (LB) Track System : 4-track 2-channel stereo **SEMICONDUCTORS**

Recording System : AC Bias

ICs : 12 (includes microphones) Erasing System : AC Erasing Transistors : 49 (includes motor governor)

Fast Forward Time : Within 110 sec. (C-60 cassette) Diodes Rewinding Time : Within 110 sec. (C-60 cassette) **POWER SOURCE**

Wow & Flutter : 0.065 % (WRMS) DC : 15 V, 10 "D", "R20" cells or

equivalent

AC : 240/220/110 V, 50/60 Hz

Design and specifications subject to change without notice.

Operating Principle of MULTI MUSIC SCANNER

(Automatic program selection facility)

This is basically identical with the RC-343/646's MULTI MUSIC SCANNER (MMS) facility. The only difference is the use of the newly developed AN6260 IC which enables skipping of more programs.

Features

- 1) It is possible to skip up to 8 programs.
- 2) Used together with the PAUSE button, it is possible to skip 9 to 16 programs.
- If the number of programs to be skipped is not set, the next program will be automatically selected.

AN6260

- This IIL logic LSI incorporates a dynamic LED drive matrix.
- When the AN6260 is operating, the output signal is muted because otherwise noise would be developed due to dynamic drive of LEDs.

Block Diagram of MMS

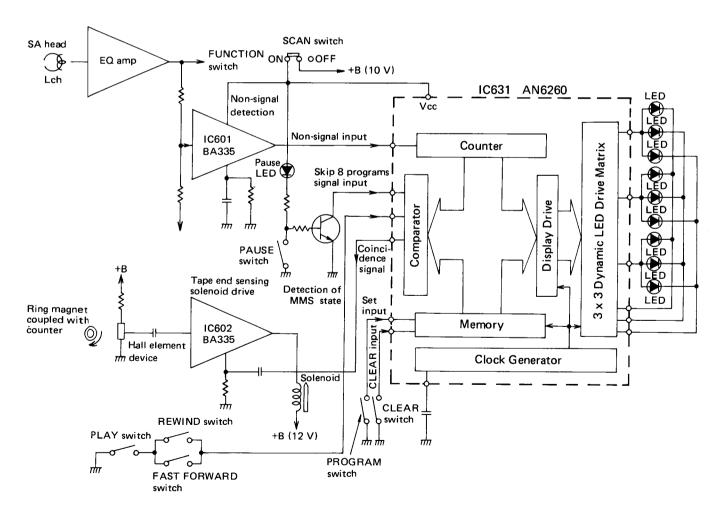


Fig. 1

Main Parts Location

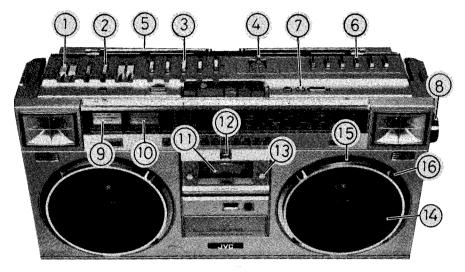


Fig. 2

Fig. 2'

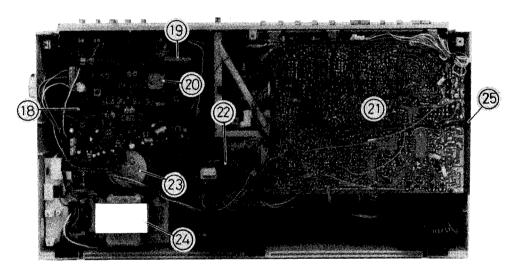


Fig. 3

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	* VXS4027-002	Knob	VOLUME, REC LEVEL	4
2	* VXS4028-002	"	BASS, TREBLE	2
3	* VXS4026-001	"	REC, TAPE, LOUDNESS, MODE	6
4	* VXQ4028-001	Lever Cap	FUNCTION	1
5	QZR4147-001U	Rod Antenna		2
6	* VXP4054-001	Push Button	BAND, REC MUTE	7
7	*VXP4053-003	Knob	PROGRAM, CLEAR	2
8	*VXL4109-001	11	Tuning	1
9	* VGM0320-006	Indicator	L-Channel	1
10	* VGM0320-005	"	R-Channel	1
11	* VJT3045-001	Cassette Lens		1
12	TJL271485-01	Head Mark	SA	1
13	TJA345525-01	Special Screw		2
14	* VJD3198-001	Speaker Net		2
15	* VJD3199-001	Speaker Ring		2
16	VJD4008-001	Special Screw		8
17	*VXKM520-20011	Knob	Fine Tuning	1
18	* _	Circuit Board Ass'y	Tuner	1
19	VQB016B-302	Bar Antenna	L8, 9	1

Ref. No.	Parts No.	Parts Name	Description	Q'ty
20	QAP1224-511V	Variable Capacitor	C1 – 8	1
21	* –	Circuit Board Ass'y	Amplifier	1
22	* _	"	Auto Stop	1
23	*EAS16P182S	Speaker	SPK301, 401	2
24	★ VTP66N2-15B	Power Transformer	T681	1
25	*VJD3208-001	Jack Board		1

Notes:

- Asterisked parts (*) show "NEW PARTS". Other parts are all "CURRENT PARTS"; therefore, check your inventory and order situation before placing new order to avoid making extra stock.
- 2. The circuit board assemblies and whole assembly of cassette mechanism in this model will not be available as spare parts.
- 3. The parts marked \triangle are the important parts for safety assurance.

Use the specified part, when replacing the safety assurance part, never use an equivalent one.

Removal of Parts - Remove parts in the sequence (1) to (4). -

1. Rear cabinet

- Remove eight screws (1) through (8) (1) to (3): SDSP3012RS, (4) to (8): SBSF3040R).
- Disconnect three connector wires (white and orange from the rod antenna and black from the shield plate).

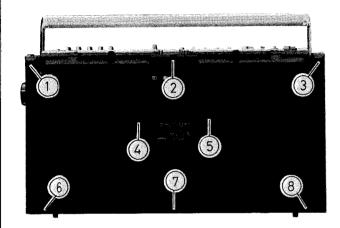


Fig. 4

2. Top panel

- Remove six knobs (VOLUME, TONE, and REC LEVEL controls).
- Remove four screws 1) through 4 (SBSF3020C).

Note: When reassembling, remove six slide knobs from the top panel first. After installing the panel, fit the knobs to the slide switches.

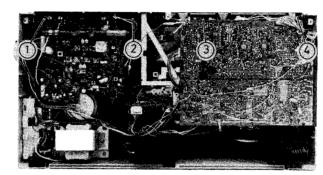


Fig. 5

3. Chassis assembly

- Move the dial needle to the left or right end.
- Remove two knobs (tuning and fine tuning). Remove two touch knobs of the automatic program selection facility MMS (see Note marked *).
- Open the cassette holder.
- Remove four screws ① through ④ (SBSB3014C).
- Disconnect 4P and 5P connectors (A) and (B) .
- Disconnect two connector wires (C) and (D).

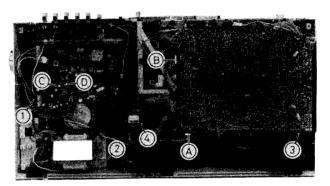


Fig. 6

Note: When reassembling, adjust the needle position with reference to the dial string.

*Note: When removing the touch knob, hold the movable part of the switch (see below) because the switch may be damaged.

Holding this part, remove the touch knob.

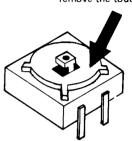


Fig. 10

3. Tuner circuit board

- Move the dial needle to the left or right end.
- Remove six screws (1) through (6) (SBSB3012V).
- Disconnect 5P connector (A) and two connector wires (B) and (C).
- Remove wire clamp (D).

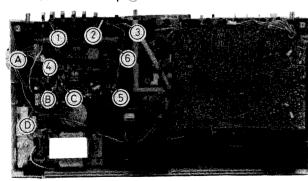


Fig. 7

Note: When reassembling, adjust the dial drum position with reference to the arm of the variable capacitor.

4. Amplifier circuit board

- Remove five screws (1) through (5) (SBSB3012V).
- Remove wire clamp (A).
- Disconnect two 3P and one 8P connectors (B), (C), and
 D). (See the Figure on the right.)

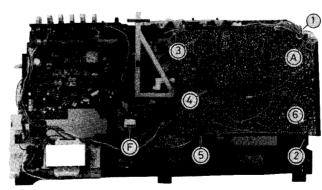


Fig. 8

Note: Remove four screws (①, ②, and A): SBSB3012Z, ⑥: SBSB3012Z) and the jack board comes off.
When reassembling, adjust the position of the FUNCTION switch with reference to the lever.

4. Cassette mechanism

- Remove seven screws ① through ⑦ (SBSB3012C).
- Disconnect 8P sockets (F) (see the Figure on the left).
- Raising the motor slightly, slip it out toward you.

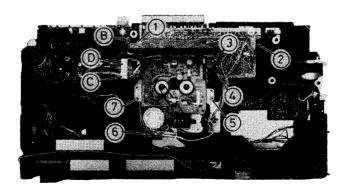


Fig. 9

Note: Remove 3P and 8P connectors © and © and the cassette mechanism can be completely separated from the chassis.

RC-M70L/LB

Removal of Parts of Cassette Mechanism

- See the "Exploded view of cassette mechanism". -

Removal of pinch roller assembly 48

• Remove E-ring 50 .

Note: Do not lose spring (49).

Removal of record/play head 26

Remove two screws (30) and (31).
 Note: Unsolder the head board if the head is to be

replaced.

Removal of erase head 32

• Remove two screws 35.

Removal of reel disk assembly 58

• Remove E-ring 60 .

Note: When removing the supply reel disk, do not lose back tension spring **59** under the disk.

Removal of rewind idler 54

• Remove E-ring (55).

Removal of main belt (12) and flywheel (18)

Remove six screws (11) , (11) , (16) , and (16) .
 Note: Do not lose thrust adjusting spring (11) .
 When removing the flywheel, do not lose oil prevention washer (16) on the capstan shaft.

Removal of FF idler assembly 69

- 1. Remove flywheel (18)
- 2. Remove E-ring ① .
- 3. Remove three springs (1), (15), and (17).

Removal of clutch assembly 66

- 1. Remove flywheel (18)
- 2. Remove spring 67.
- 3. Remove E-ring 68 .

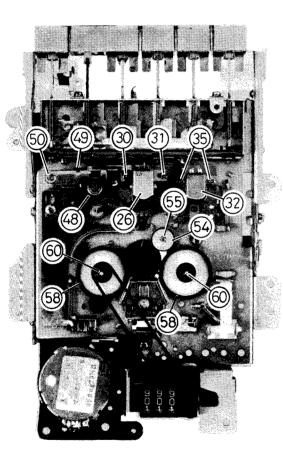


Fig. 11

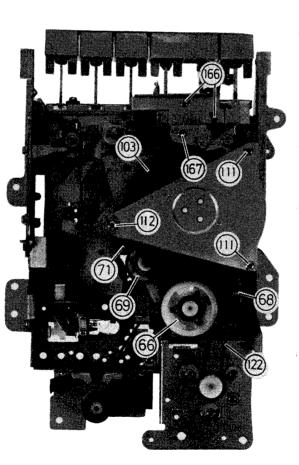


Fig. 12

Specifications of Cassette Mechanism

Check the following items after cassette mechanism parts are replaced.

Item	Requirements	Test equipment	Test tape	
1. Source voltage	Rated voltage: 12 V DC Motor operating voltage range: 8.4 — 15 V DC	Regulated power supply		
2. Tape speed	4.75 cm/sec +3 % (3,000 Hz) -2 % Deviation 2 %	(3,000 Hz) -2 % Frequency counter (digital counter)		
3. Wow & flutter	Less than 0.14%(CCIR,WTD)	Less than 0.14%(CCIR,WTD) Wow meter		
	PLAY 40 - 70 g.cm	During FF and rewind, the idlers, reels and flywheel should not slip against each other when the reels		
4. Take-up torque	FF 100 – 160g.cm	are locked. Torque dial gauge (Tonichi or		
	REW 100 – 160g.cm	equivalent)		
5. Current	PLAY 100 mA or less		C-60 (Take-up torque	
consumption	FF 200 mA or less	DC ammeter	should be normal when	
(of motor alone)	REW 200 mA or less		tape is used.)	
6. Pinch roller pressure	350 — 500 g	Tension gauge Pull the pinch roller perpendicularly and read the gauge when the pinch roller just stops.		
7. Áxial clearance of flywheel	0.1 - 0.4 mm	Clearance gauge		
8. Head position during PLAY and RECORD	32 72 73 72 73 73 73 73 73 73 73 73 73 73 73 73 73	During PLAY(RECORD), the dimensional requirements given here must be met, and the heads must not contact the cassette case.	Any cassette tape	
9. Head position during cueing	O O REC/PLA			
10. Auto-stop operation	The facility should operate w the end of tape during PLAY During REC, a load the same	Any cassette tape		
11. Cueing operation	Lock PAUSE, PLAY, and FF instantly to the solenoid after FF (REW) buttons should be	During REC, a load the same as that of the amplifier is applied. Lock PAUSE, PLAY, and FF (REW) buttons and apply 6.5 V instantly to the solenoid after the tape is wound. PAUSE and FF (REW) buttons should be released in this order. The motor should be supplied with 6.5 V.		
12. Timer recording mechanism		ECORD mode, PAUSE button V is applied to the solenoid. The h 6.5 V.	<u>-</u>	

Adjustment of Cassette Mechanism

• Pinch roller pressure

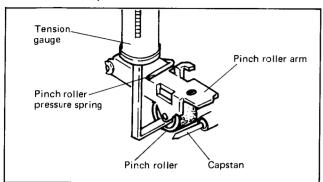


Fig. 13

- 1) Stand the mechanism upright with the motor side facing downward. Set it in the PLAY mode. Pull the projected part of the pinch roller arm slowly with a tension gauge. The gauge should read 350 – 500 grams when the pinch roller just stops to rotate.
- 2) If the gauge reading is outside the given range, replace the pinch roller spring or adjust by bending it.
- If the pressure is too great, the pinch roller bearing may generate noise. Wow & flutter may be caused when the pressure is too great or weak.

Playback torque

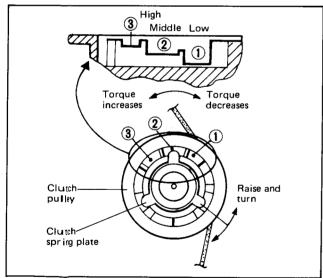


Fig. 14

- Install a torque gauge on the take-up reel disk. Put the mechanism in the PLAY mode. The gauge reading should be 40 - 70 g.cm.
- 2) If the gauge reading is outside the given range, check rubber and rotating parts for the adherence of dirt and oil first. Then, if the torque is low, move the clutch spring plate to position ③ by slightly raising it. If the torque is high, move the plate to position ①.

• Fast forward/rewind torque

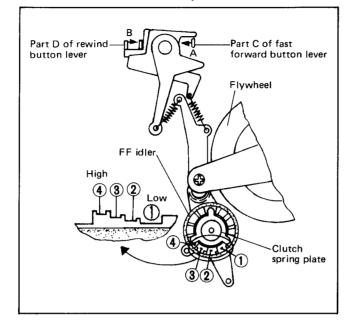


Fig. 15

1. Fast forward torque

Fit a torque gauge to the take-up reel disk and put the mechanism in the fast forward state. The gauge reading should be 100 - 160 g.cm.

- 1) If the torque is outside the given range because of insufficient pressure of the FF idler against the flywheel or unstable operation of the FF idler freewheel mechanism, bend part © of the fast forward button lever in direction A or move the FF idler clutch spring plate up and in the direction of ①.
- 2) If the torque is not correct even when the FF idler freewheel mechanism operates properly, move the FF idler clutch spring plate in the direction of 4.

2. Rewind torque

Fit a torque gauge to the rewind reel disk and put the mechanism into the rewind mode. The gauge reading should be 100 - 160 g.cm.

- 2) If the torque is not correct even when the FF idler freewheel mechanism operates properly, move the FF idler clutch spring plate in the direction of 4.

Note: The torque may be incorrect if the rubber parts (the belt and idlers and the circumference of the flywheel) are not clean. If they are dirty, clean them with alcohol.

Adjustment of Cassette Recorder Amplifier

Conditions

Source power:

Switch setting:

15 V DC

Measurement: at DIN OUT terminal

FUNCTION: TAPE or DIN IN

REC: MANU

TAPE: NORMAL or METAL

LOUDNESS: OFF

REC LEVEL: at maximum BEAT CUT: "1 (NORMAL)"

Adjust in the following sequence.

1) Head azimuth

Connect an oscilloscope to the DIN OUT terminals. Using test tape VTT-658 (10 kHz, -15 dB), adjust so the phase difference between the L and R outputs is 0° and maximize the output level at the same time.

2 Tape speed

Connect a frequency counter to the DIN OUT terminals. Playing back test tape VTT656 (3,000 Hz), adjust the semi-fixed resistor in the motor so that the frequency counter reads 3.010 ± 10 Hz.

3 Playback level

Connect an electronic voltmeter to the DIN OUT terminals. Playing back test tape VTT664 (1 kHz, 16 mM), adjust VR302 and VR402 so that the voltages become 500mV.

(4) Recording current

Apply 1 kHz (-24 dBs) to the DIN IN terminals. Cut off bias. Adjust VR303 and VR403 so that current of $37\,\mu\text{A}$ (0.37 mV/10 ohms) flows through the head. Then adjust VR305 and VR405 so that the VU meter reads 0 dB.

(5) Bias frequency

Connect a frequency counter across TP301 and 302. Adjust L501 so that the counter reads 68.5 kHz.

6 Bias current

METAL: Connect an electronic voltmeter across TP301 and 302 (TP401 and TP402). Adjust VR301 and VR401 so that the voltmeter reads 5.5 mV/10 ohms (550 μ A).

NORMAL: Adjust VR304 and VR404 so that the voltmeter reads 2.8 mV/10 ohms (280 μ A).

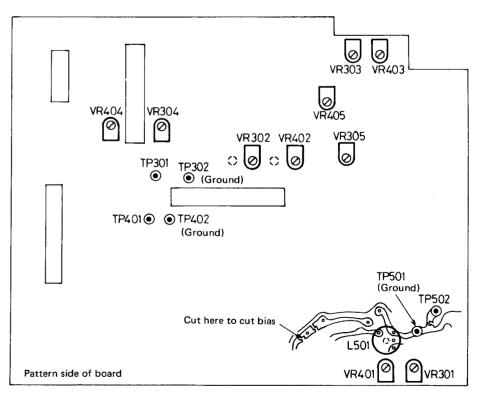
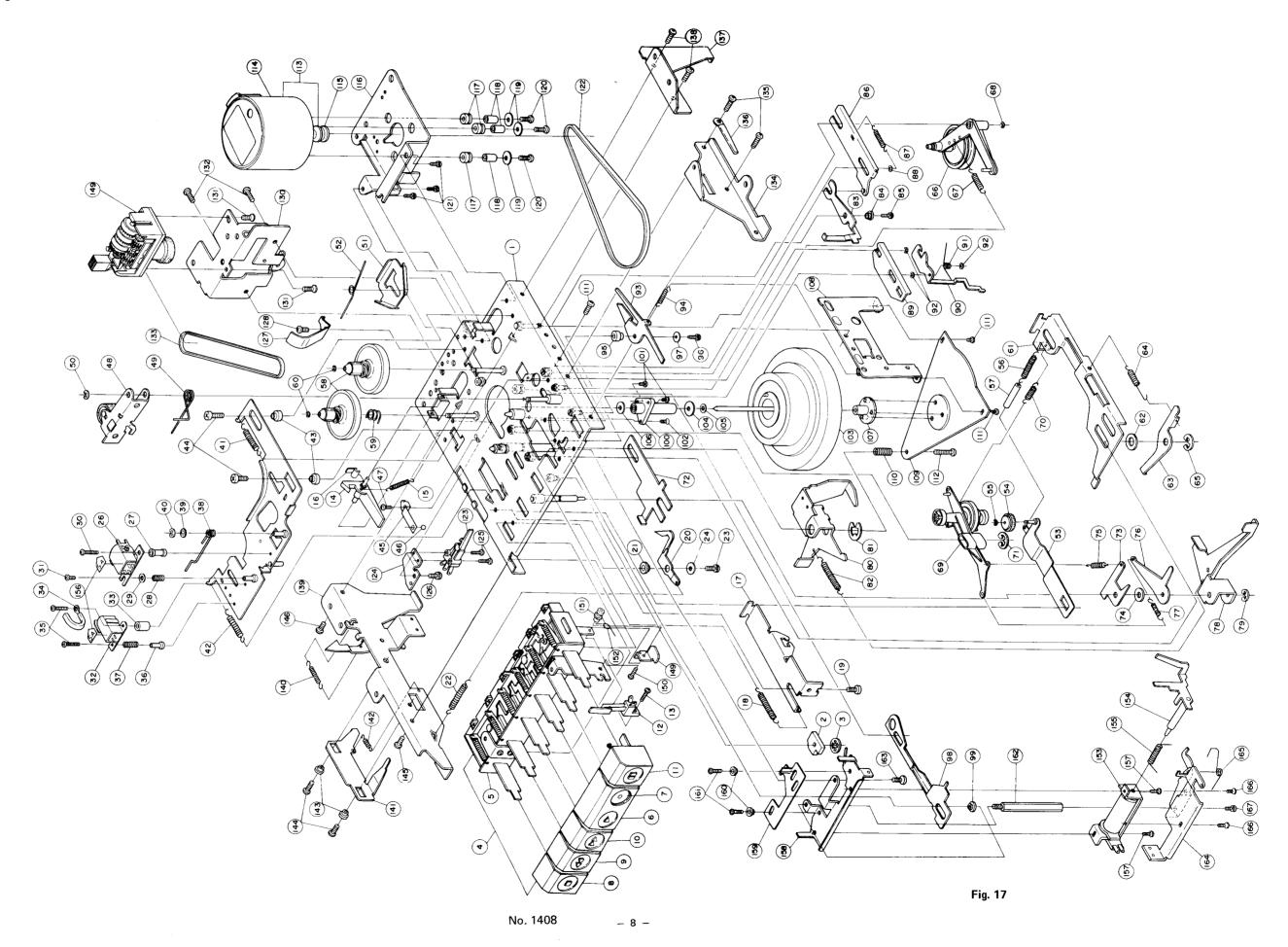


Fig. 16

Exploded View of Cassette Mechanism



Parts List of Cassette Mechanism

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	* 15160181ZT	Mechanism Chassis		1
2	9700106T	Rubber Sheet		1
3	RDS3000F	CS Ring		1
4	*15160271ZT	Push Button Switch Ass'y		1
5	*15160291ZT	"		i
6	*VXP3043-001	Push Button	PLAY	1
7	*VXP3044-001	"	REC	1 1
8	*VXP3045-001	,,	STOP/EJECT	1 .
		,,	I '	1
9	*VXP3045-002		REW/REVIEW	1
10	*VXP3045-003		FF/CUE	1
11	*VXP3045-004	"	PAUSE	1
12	13350216T	Leaf Switch	VSH1105-001 S634	1
13	SPSP2605Z	Screw	:	1
14	2680503T	Record Safety Lever		1
15	1320303T	Spring		1
16	2680515T	Stopper		1
17	13340301T	Record Slide Lever		1
18	581308T	Spring		
19	11050202T	Color Screw B		
20		l .	·	1
	13340308T	Stopper V		1
21	030304T	Collar		1
22	1450802T	Spring		1
23	SDSP2608Z	Screw		1
24	WNS2600Z	Washer		1
25	13350482ZT	Head Panel Ass'y		1
26	ZMM074401-0D	Rec/Play Head	SA	1
27	790501T	Rec/Play Head Collar		1
28	480408T	Spring		i
29	WSS2000Z	Washer		1
30	SPSP2011Z	Screw		1 .
31	SPSX2006Z	U JCIEW		1
32	ZMM090414-0A	Erase Head		1
	· ·		SA	1
33	* 15160401T	Erase Head Collar		1
34	11030405T	Wire Clamp		1
35	SPSP2011Z	Screw		2
36	* 15160402T	Erase Head Stud		1
37	480408T	Spring	Erase Head	1
38	13340801T	RQ Spring		1
39		Special Washer	ϕ 3.3 x ϕ 8 x t0.3	1
40	REE2500	E-Ring	1	1
41	4080413T	Spring		1
42	180606T	"		1
43	4080411T	Collar		2
44	SDSP2604Z	Screw		2
				[
45	10630410T	Spring Plate	1-10	1
46	020404BT	Steel Ball	φ3	1
47	SPSD 2604Z	Screw		1
48	*15160481ZT	Pinch Roller Ass'y		1
49	6680501T	Pinch Roller Spring		1
50	REE2000	E-Ring		1
51	4080901T	Brake Arm		1
52	8200902T	Spring		1
53	9701081ZT	Rew Idler Arm Ass'y		1 1
54	2110902T	Rew Idler		1
55	REE1500	E-Ring		1
56	020905BT	Spring		
	02090361		42.5 1.24	1
5.7	1101000577	Tube	φ3.5 x L24	1
58	11010695ZT	Reel Disc Ass'y	<u>-</u>	2
59	* 15160601T	Spring	For back tension	1
60	REE1200	E-Ring		2

Ref. No.	Parts No.	Parts Name	Description	Q'ty
61	10710903T	Brake Operating Plate		1
62	110505T	Special Washer	ϕ 6.1 × ϕ 10 × t0.5	1
63	4080807T	RQ Lever	, , , , , , , , , , , , , , , , , , , ,	1
64	5580211T	Spring		i
65	REE4000	E-Ring		1 1
66	*13120791ZT	Clutch Ass'y		1
67	2380406T	Spring		1
68	REE2000	E-Ring		1
69	13350891ZT	FF Idler Ass'y		1
70	581316T	Spring		1
71	REE4000	E-Ring		1
72	11820806T	RQ Operating Plate		i
73	13350801T	Rew Operating Plate		1 1
74	110505T	Special Washer		1 1
75	8780803T	Spring		1 1
76	4080804T	FF Operating Plate		1
77	8780303T	Spring		
78	13340304T	Record Lever		
79	REE3000	E-Ring		
80	*15160303T	Record Kick Lever		1
81	REE5000	E-Ring		1 1
82	581308T			1
83	1	Spring		1
	4081503T	Arm Lever		1
84	2381304T	Collar	· ·	1
85	LPSP2605Z	Ass'y Screw		1
86	4081581ZT	Slide Lever Ass'y		1
87	4081510T	Slide Lever Spring		1
88	REE2000	E-Ring		1
89	5581681ZT	Pause Slide Lever Ass'y		1
90	12391705T	Pause Lever		1
91	5421803T	Pause Spring		1
92	REE1500	E-Ring	<u> </u>	3
93	4081405BT	Auto Lever		1
94	4081407T	Spring		1
95	13341401T	Collar		11
96	LPSP2608Z	Ass'y Screw		1
97	7061501T	Special Washer		1
98	13340209T	Rec/Play Slide Lever		1
99	090302T	Collar		1
100	*15161102ZT	Flywheel Metal Ass'y		1
101	LPSP2005Z	Ass'y Screw		2
102	SSSP2005Z	Screw		1
103	12391101ZT	Flywheel Ass'y		1
104	11011106T	Special Washer	F.L.	1
105	11011107T		F.L.	1
106	7131108T	"	Oil cut	1
107	12391102T	Flywheel Bearing		1
108	12391103T	Flywheel Bracket (A)		1
109	7131106T	" (B)		1
110	580210T	Spring		1
111	LPSP2604Z	Ass'y Screw		3
112	SPSP2612Z	Screw		1
113	*12391293ZT	Motor Ass'y	with Pulley	1
114	*MHI-5E2RDPB	Motor		1
115	9731202MT	Motor Pulley		1
116	8201201T	Motor Bracket		1
117	T45687-001	Rubber Cushion		3
118	4081211T	Motor Collar		3
119	031512T	Washer		3
120	SPSP2607Z	Screw		3

PSP2604Z 731201CT 731201CT 7251804T 701801T 705P2008Z PSP2604Z 7010101T PSP2604Z 70161601T 7582608Z 7502604Z 701602T 76161802T 7502604Z 76161803T 7502604Z 76161302T 771904T	Ass'y Screw Main Belt Main Switch Main Bracket Screw Ass'y Screw Back Spring Screw Tape Counter Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever Spring	S506	3 1 1 1 2 1 1 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1
251804T 201801T 201801T 201801T 201801T 20192008Z 2010101T 201010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 201010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 201010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 201010101T 2010101T 2010101T 2010101T 201010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T 2010101T	Main Belt Main Switch Main Bracket Screw Ass'y Screw Back Spring Screw Tape Counter Counter Bracket Screw Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever	S506	1 1 1 2 1 1 1 1 2 2 1 1 1 2 1 1 2
201801T 0SP2008Z PSP2604Z 010101T PSP2604Z KC5129-001T 0161601T 0SB2608Z PSD2604Z 001602T 0161802T 0161803T PSD2604Z 0161381ZT 0161381ZT 0161302T 0161302T	Main Bracket Screw Ass'y Screw Back Spring Screw Tape Counter Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever	S506	1 1 2 1 1 1 1 2 2 1 1 1 2 1 1 2
OSP2008Z PSP2604Z O10101T PSP2604Z KC5129-001T O161601T SSB2608Z PSD2604Z O1602T O1602T O161802T PSD2604Z O161803T PSD2604Z O161381ZT O161381ZT O161302T	Screw Ass'y Screw Back Spring Screw Tape Counter Counter Bracket Screw Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 2 1 1 1 2 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1
OSP2008Z PSP2604Z O10101T PSP2604Z KC5129-001T O161601T SSB2608Z PSD2604Z O1602T O1602T O161802T PSD2604Z O161803T PSD2604Z O161381ZT O161381ZT O161302T	Ass'y Screw Back Spring Screw Tape Counter Counter Bracket Screw Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		2 1 1 1 1 1 2 2 1 1 2 1 1 2
PSP2604Z 010101T PSP2604Z KC5129-001T 0161601T 0582608Z PSD2604Z 001602T 0161802T 0502604Z 060901T 0161803T PSD2604Z 0161381ZT 0161302T 0161302T	Back Spring Screw Tape Counter Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 1 1 1 2 2 1 1 2 1 2
010101T 0SP2604Z KC5129-001T 0161601T 0SB2608Z 001602T 0161802T 05D2604Z 060901T 0161803T 0SD2604Z 0161381ZT 0161302T 0161302T	Back Spring Screw Tape Counter Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 1 1 2 2 2 1 1 2 1 2
PSP2604Z KC5129-001T 5161601T SSB2608Z PSD2604Z 501602T 5161802T 560901T 5161803T PSD2604Z 5161381ZT 51205T 5161302T 51205T	Screw Tape Counter Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 1 2 2 1 1 2 1 1 2
KC5129-001T 5161601T 5SB2608Z 2SD2604Z 301602T 5161802T 5SD2604Z 60901T 5161803T 2SD2604Z 5161381ZT 51205T 5161302T	Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 2 2 1 1 2 1 1 2
5161601T 5SB 2608Z 5SD 2604Z 501602T 5161802T 5SD 2604Z 60901T 5161803T 5SD 2604Z 5161381ZT 51205T 5161302T 51205T	Counter Bracket Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 2 2 1 1 2 1 1 2
SSB 2608Z PSD 2604Z 101602T 1161802T PSD 2604Z 60901T 161803T PSD 2604Z 1161381ZT 11205T 11205T	Screw " Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		2 2 1 1 2 1 1 2
PSD 2604Z 101602T 1161802T PSD 2604Z 160901T 161803T PSD 2604Z 1161381ZT 11205T 11205T	Counter Belt Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 2 1 1 2 1 2
001602T 1161802T 125D 2604Z 60901T 1161803T 125D 2604Z 1161381ZT 11205T 11205T	Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 2 1 1 2 1
6161802T PSD 2604Z 60901T 6161803T PSD 2604Z 6161381ZT 61205T 6161302T 61205T	Side Bracket (A) Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 2 1 1 2 1
PSD 2604Z 60901T 1161803T PSD 2604Z 1161381ZT 11205T 11205T	Screw Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		2 1 1 2 1
60901T 5161803T SD 2604Z 5161381ZT 51205T 5161302T 51205T	Wire Clamp Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 1 2 1
161803T SD 2604Z 161381ZT 1205T 161302T 11205T	Side Bracket (B) Screw Eject Bracket Ass'y Spring Eject Lever		1 2 1
SD 2604Z 1161381ZT 11205T 1161302T 11205T	Screw Eject Bracket Ass'y Spring Eject Lever		2 1
1161381ZT 11205T 1161302T 11205T	Eject Bracket Ass'y Spring Eject Lever		1
1205T 161302T 1205T	Spring Eject Lever		1
161302T 1205T	Eject Lever		1
1205T	1 -	!	
	Spring		1
1/19041	1		1
	Collar		2
SD 2606Z	Screw		2
SD3010Z	"		1:
SD 2604Z	, ,		1
		Blank No.	-
		Blank No.	
160212T	Pause Lever Bracket		1
350295T	Special Screw		1
350217T	Collar		1
350218T	Spring		1
411481ZT	Arm Ass'y		1
161481ZT	Plunger Ass'y		1
391620T	Spring		1
IC037417-02	Head Plate	SA Mark	2
SP2003Z	Screw		2
351702T	Bracket (R)		1:
81612T	Auto Lever Plate		1
81613T	Collar		2
SP2004Z	Screw		2
	1	·	1:
	1		1
391/014 1	1		1
			1
391704T			2
-	SP2003Z 351702T 81612T 81613T SP2004Z 391601T SP2605Z 391781ZT 391704T	SP2003Z Screw 351702T Bracket (R) 81612T Auto Lever Plate 81613T Collar SP2004Z Screw 391601T Ass'y Stud SP2605Z Screw 391781ZT Pause Plate Ass'y 391704T Spring SP2003Z Screw	SP2003Z Screw 351702T Bracket (R) 81612T Auto Lever Plate 81613T Collar SP2004Z Screw 391601T Ass'y Stud SP2605Z Screw 391781ZT Pause Plate Ass'y 391704T Spring

Tuner Alignment

Output Measuring: Speaker terminal (Impedance =3.2 Ω), output level 50mW (0.4V/3.2 Ω)

AM IF & RF Alignment

Input (SSG)

Modulation 400Hz, Modulated to 30%

Step	Frequency		Input Signal	Place to be	Set the V.		
Otop	Band	Frequency	Given to	aligned	Capacitor to		
1	MW	455kHz	Loop Antenna	T4,5,3	Minimum		
2	(IF)		Repeat the Step 1, and adjust	for no further improvem	ent.		
3		145kHz	Laan Antonia	L14	Maximum		
4		360kHz	Loop Antenna	C68	Minimum		
5	LW		Repeat the Steps 3 & 4.	7.19			
6	LVV	160kHz	1.000 0.000	L9	160kHz Signal		
7		350kHz	Loop Antenna	C65	350kHz Signal		
8			Repeat the Steps 6 & 7, and ac	djust for no further impro	ovement.		
9		520kHz	1 A	L13	Maximum		
10		1650kHz	Loop Antenna	C71	Minimum		
11	MW		Repeat the Steps 9 & 10.				
12	10100	600kHz		L8	600kHz Signal		
13		1400kHz	Loop Antenna	C64	1400kHz Signal		
14		Repeat the Steps 12 & 13, and adjust for no further improvement.					
15		2.2MHz	Rod Antenna through	L15	Maximum		
16		6.3MHz	Dummy Antenna	C69	Minimum		
17	SW1		Repeat the Steps 15 & 16.				
18	3001	2.3MHz	Rod Antenna through	L10	2.3MHz Signal		
19		6.0MHz	Dummy Antenna	C66	6.0MHz Signal		
20			Repeat the Steps 18 & 19, and	adjust for no further imp	provement.		
21		5.90MHz	Rod Antenna through	L16	Maximum		
22		6.30MHz	Dummy Antenna	C70	Minimum		
23	SW2		Repeat the Steps 21 & 22.				
24	3112	5.9MHz	Rod Antenna through	L12	5.9MHz Signal		
25		6.3MHz	Dummy Antenna	C67	6.3MHz Signal		
26			Repeat the Steps 24 & 25, and	adjust for no further imp	provement.		
27		5.8MHz	Rod Antenna through	L17	Maximum		
28		18.6MHz	Dummy Antenna	C8	Minimum		
29	SW3		Repeat the Steps 27 & 28.				
30	33	6MHz	Rod Antenna through	L11	6MHz Signal		
31		18MHz	Dummy Antenna	C7	18MHz Signal		
32		F	Repeat the Steps 30 & 31, and	adjust for no further imp	rovement.		

FM IF & Discriminator Alignment

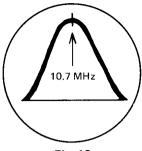
Input (Sweep Generator): TP3 (hot) & TP2

Output (Oscilloscope) : IF

TP4 (hot) & TP7

Discriminator TP6 (hot) & TP7

Step	Mode	Place to be aligned	Wave form
1	IF	T1	Fig. 18
2	Discriminator	T2	Fig. 19



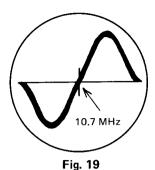


Fig. 18

FM RF Alignment

Input (SSG): Use 75 Ω terminal, modulation 400 Hz modulated to 22.5 kHz deviation. Connect Hot side to TP1 and Cold side to TP2.

Frequency	Input Signal		Place to be	Set the V.	
Step	Band	Frequency	ency Given to aligned	aligned	Capacitor to
1		87.5 MHz	704 0 TD0	L4	Maximum
2		109 MHz	TP1 & TP2	C4	Minimum
3	7 <u></u> [Repeat the Steps 1 & 2.			
4	FM	90 MHz	TD4 0 TD0	L1	90 MHz Signal
5		106 MHz	TP1 & TP2	C2	106 MHz Signal
6		Rep	eat the Steps 4 & 5, and ad	just for no further improve	ement.

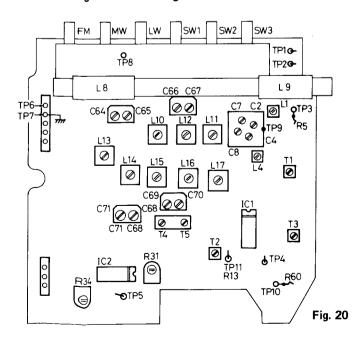
FM MPX Alignment

- A. 19 kHz Alignment (regular Method)
 - 1. Connect a frequency counter to the test point TP5.
 - 2. Adjust the variable resistor R31 so that the frequency becomes 19 kHz ± 250 Hz.
- B. 19 kHz Alignment (Simplified Method)
 - 1. Tune to a FM stereo broadcast.
 - 2. Set the variable resistor R31 to the center position of the range in where the stereo indicator keeps lighting.

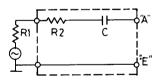
C. Separation Alignment

- Connect a FM stereo signal generator across the test points TP1 & TP2. (98 MHz, 60 dB)
- 2. Connect a V.T.V.M. or oscilloscope across the test points TP6 & TP7.
- 3. Adjust the variable resistor R34 to minimize the output of right channel signal.

Parts Arrangement for Alignment



Dummy Antenna



 $R1 + R2 = 80 \Omega$

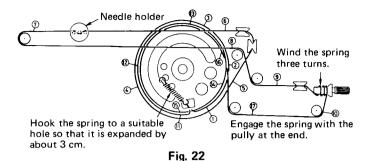
C = 10 pF

R1: Output impedance of S.S.G.

Fig. 21

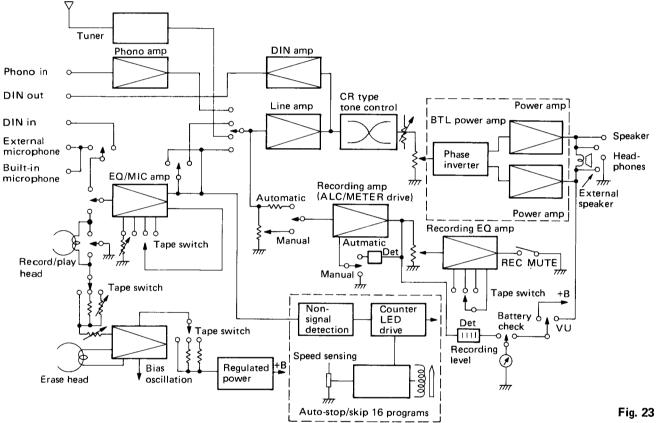
How to Engage Dial Cord

- 1. Turn the dial drum fully counterclockwise (to the lowest frequency).
- 2. Use Kevlar cord (1.910 mm long and 0.5 mm in dia-
- 3. Install the string in the sequence of the numbers.
- 4. Align the needle holder (disk) with the white circle mark on the MMS LED Circuit Board.

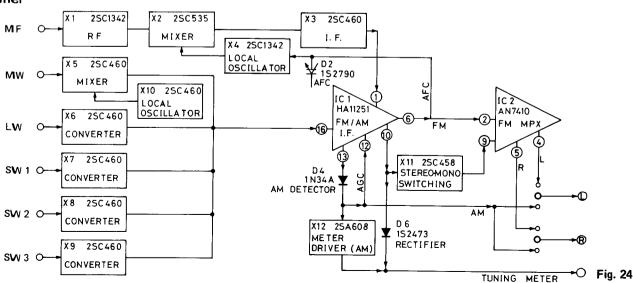


Block Diagrams

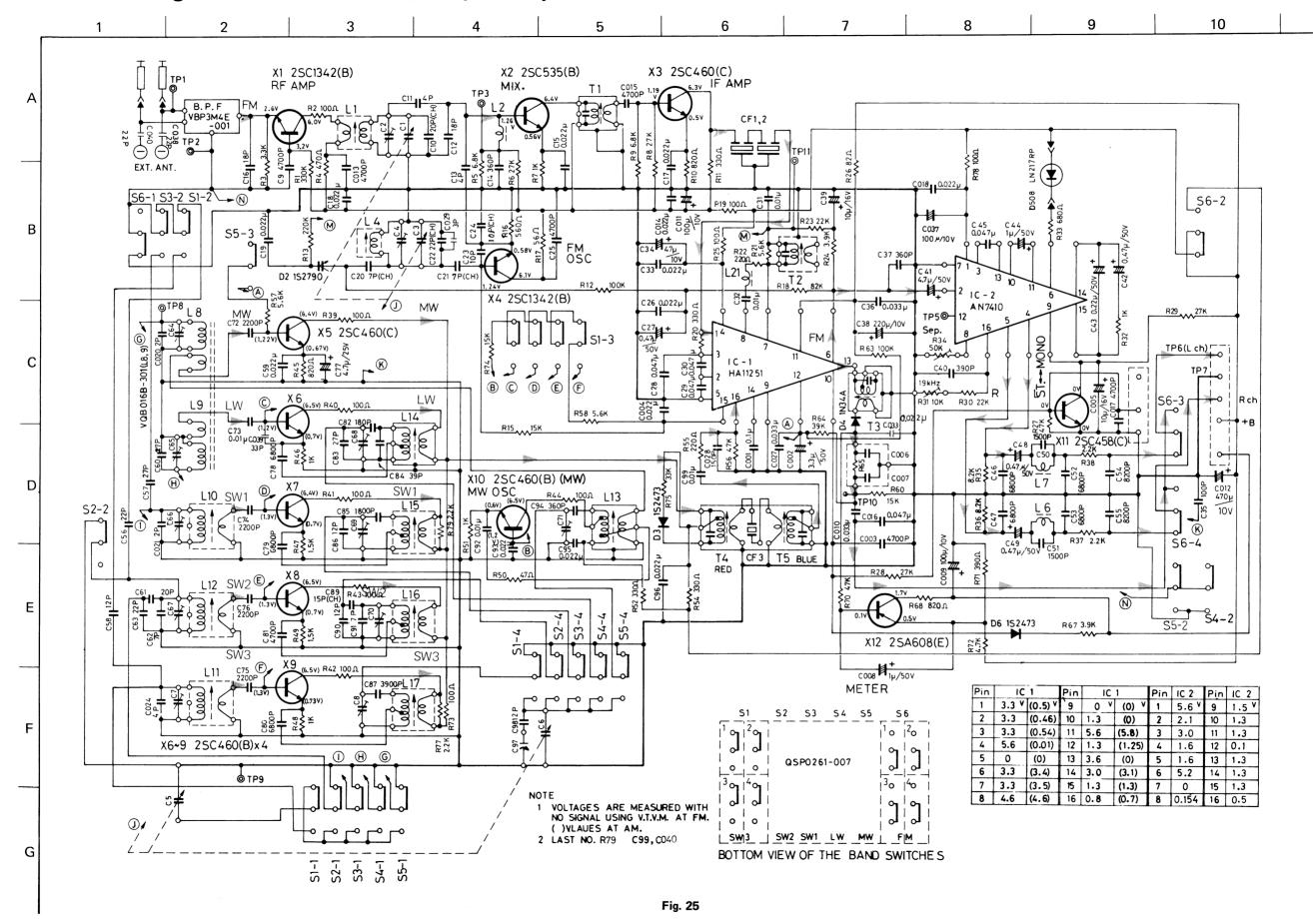
Amplifier Tuner



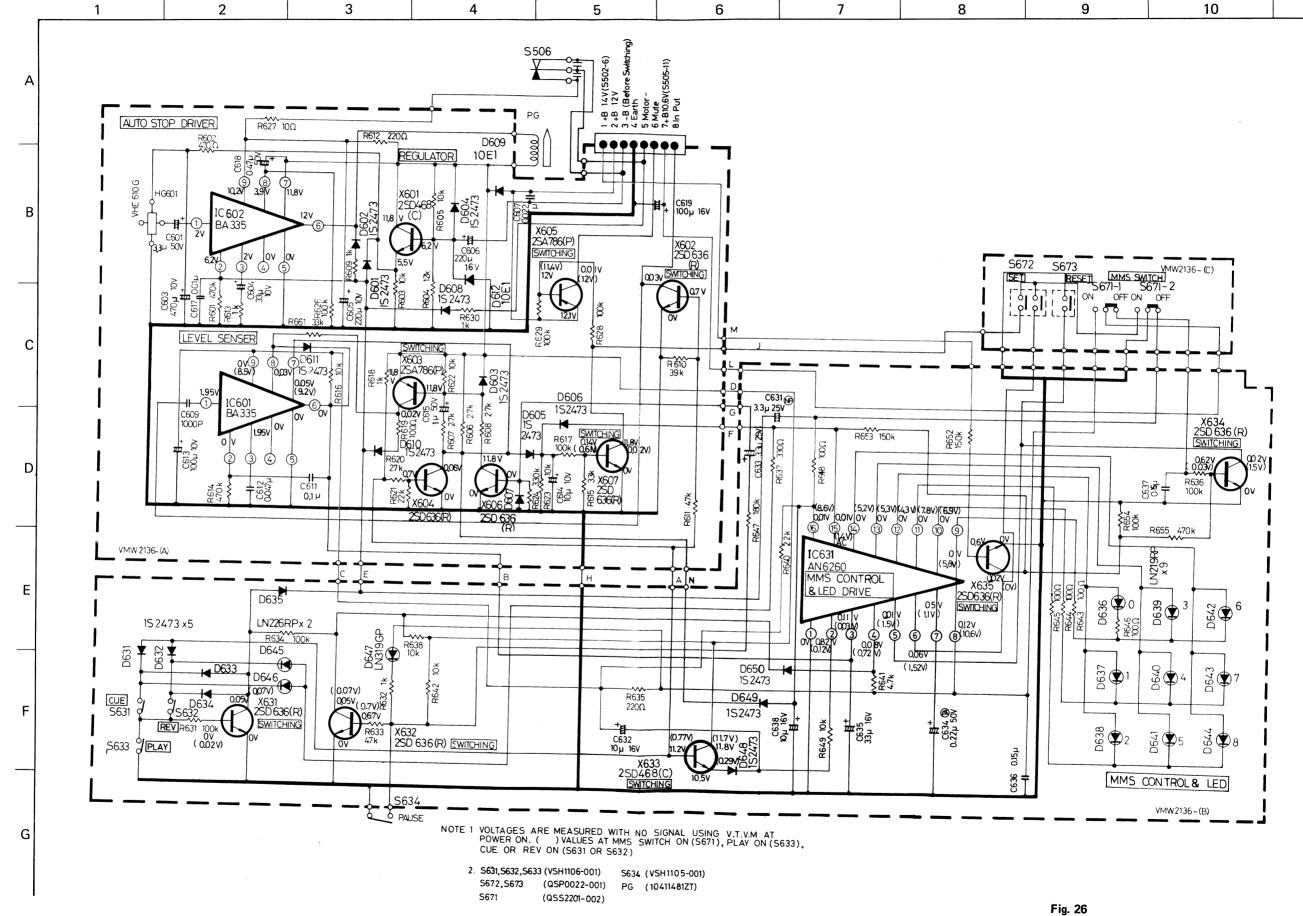




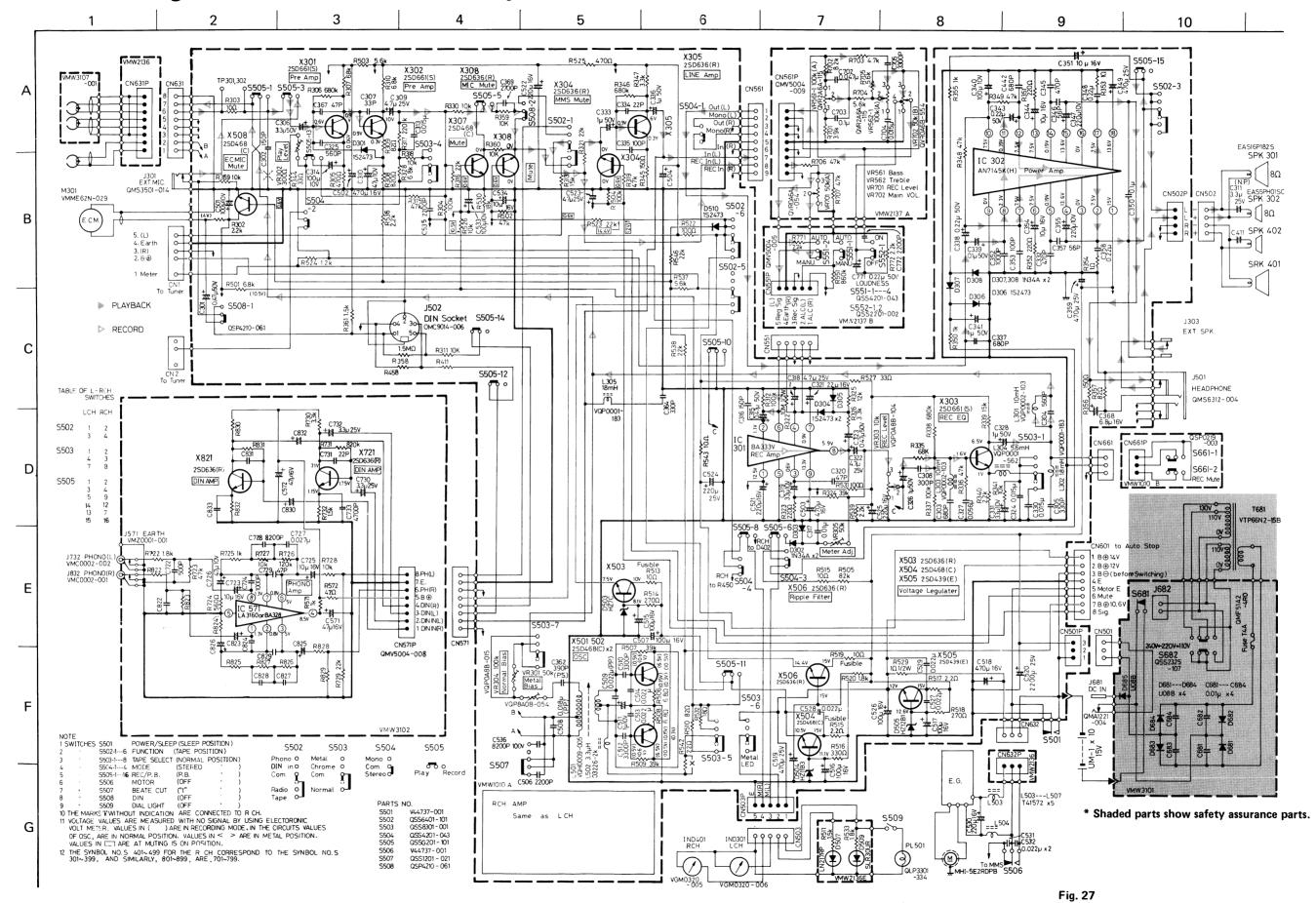
Schematic Diagram of RC-M70L/LB(Tuner)



Schematic Diagram of RC-M70L/LB(MMS Control)



Schematic Diagram of RC-M70L/LB (Amplifier)



Tuner, Volume and Switch Circuit Board Assemblies

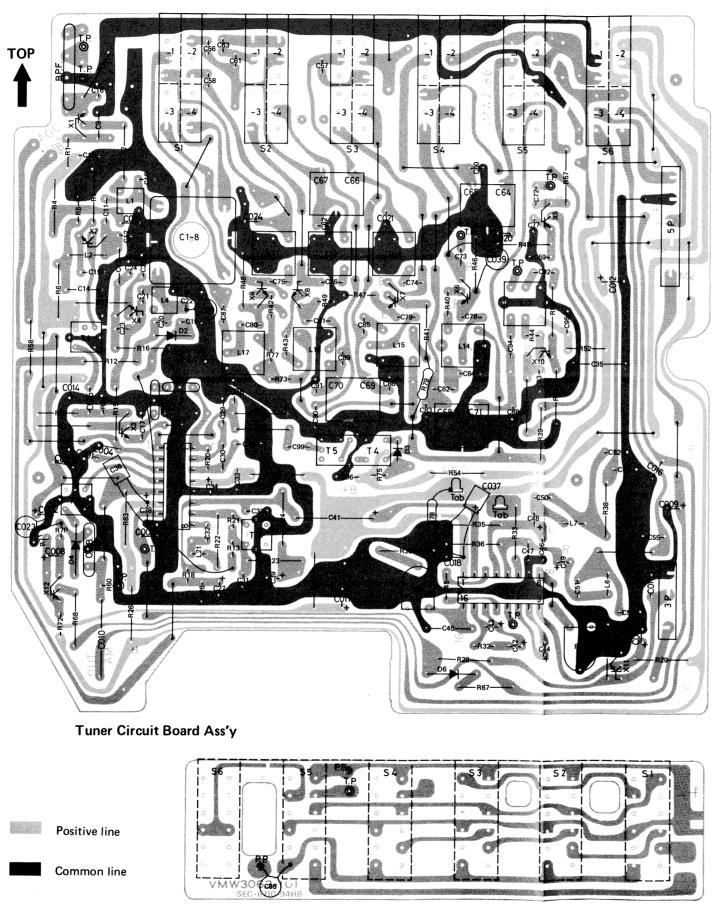
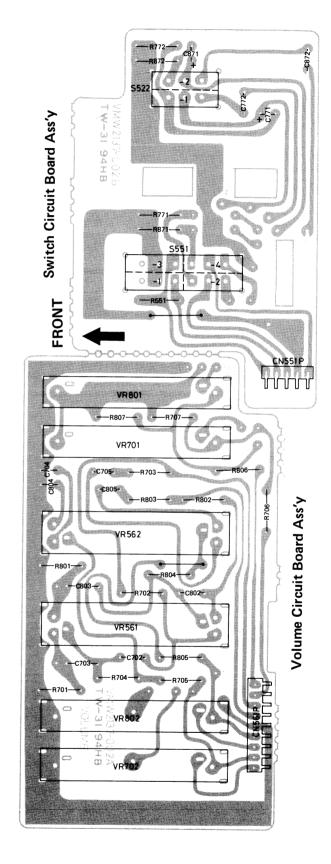


Fig. 28

No. 1408

– 16 –



Note: The circuit board assembly will not be available as spare part.

Tuner Circuit Board Ass'y

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X1,4	2SC1342(B)	Silicon (HITACHI)	0.1 W	250 MHz
X2	2SC535(B)	" (")	"	940 MHz
X3,5	2SC460(C)	" (")	0.2 W	230 MHz
X6,7,8,9,10	2SC460(B)	" (")	"	"
X11	2SC458(C)	" (")	"	"
X12	2SA608(E)	" (SANYO)	0.1 W	180 MHz

ICs & Diodes

Ref. No.	Parts No.	Parts Name	Description
IC1	HA11251	Integrated Circuit	HITACHI
IC2	AN7410	"	MATSUSHITA
D2	MA345	Vàriable Capacitance Diode	"
D3,6	1\$2473	Silicon Diode	TOYO DENGU
D4	1 N34A	Germanium Diode	HITACHI

Resistors

Ref. No.	Parts No.	Parts Name	Des	cription
R1	QRD143K-334	Carbon	330 kΩ	1/4 W
R2,19,25,39,41,78	QRD141K-101	"	100 Ω	"
R3	" -332	"	3.3 kΩ	"
R4	′′ -471	"	470 Ω	"
R5	" -682	"	6.8 kΩ	"
R6,28,29	" -273	"	27 kΩ	"
R7,46,48,51	" -102	"	1 kΩ	"
R8	QRD143K-273	"	2 7 kΩ	"
R9	" -682	"	$6.8~\mathrm{k}\Omega$	"
R10	″ -821	"	820 Ω	"
R11,54	QRD141K-331	"	330 Ω	"
R12,27,63	" -104	"	100 kΩ	"
R13	QRD143K-224	"	220 kΩ	"
R15,60,74	QRD141K-153	"	15 kΩ	"
R16	″ -561	"	560 Ω	"
R17	" -560	"	56 Ω	"
R18	QRD143K-823	"	82 kΩ	"
R20,52	" -331	"	330 Ω	"
R21	" -562	"	5.6 k Ω	"
R22,55	QRD141K-221	"	220 Ω	"
R23,30	" -223	"	22 kΩ	"
R24,67	" -392	"	3.9 k Ω	"
R26	" -820	"	82 Ω	"
R31	QVP8A0B-014	Variable	10 kΩ	B-curve
R32	QRD143K-152	Carbon	1.5 k Ω	1/4 W
R33	QRD141K-681	"	680 Ω	"
R34	QVP8A0B-054A	Variable	50 kΩ	B-curve
R35,36	QRD141K-822	Carbon	8.2 k Ω	1/4 W
R37,38,79	" -222	"	$2.2\mathrm{k}\Omega$	"
R40,42,43,44,73	QRD143K-101	"	100 Ω	"
R45,68	QRD141K-821	"	820 Ω	"

Resistors

Ref. No.	Parts No.	Parts Name	Desc	ription
R47,49	QRD143K-152	Carbon	1.5 k Ω	1/4 W
R50	QRD141K-470	"	47 Ω	n
R56	′′ -473	"	47 kΩ	"
R57,58	" -562	"	5.6 k Ω	"
R64	" -393	"	39 kΩ	"
R70	QRD143K-473	"	47 kΩ	"
R71	′′ -391	"	390 Ω	"
R72	′′ -472	"	$4.7~\mathrm{k}\Omega$	"
R75	" -333	"	33 k Ω	"
R77	QRD143K-222	Carbon	$2.2\mathrm{k}\Omega$	1/4 W

Capacitors

Ref. No.	Parts No.	Parts Name]	Description
C1~8	QAP1224-511V	Variable		
C9,25,003,013,015,	QCF11HP-472	Ceramic	4700 pF	50 V
017				
C10	QCT05CH-200	"	20 pF	"
C11,13,024	QCS11HJ-4R0	′′	4 pF	"
C12,16	" -180	"	18 pF	"
C14	QFS21HJ-361	Polystyrol	360 pF	"
C15,17,19,26,33,59	QCF11EZ-223	Ceramic	0.022 μF	25 V
93,96,004,018				
023				
C18,95,014,016	QFM41HM-223	Mylar	"	"
C20,21,91	QCT05CH-7R0	Ceramic	7 pF	"
C22	" -220.	"	22 pF	"
C23	QCS11HJ-100	"	10 pF	"
C24	QCT05CH-100	"	"	"
C27,48,49	QET41HR-474	Electrolytic	0.47 μF	"
C28,29,30,45	QFM41HM-473	Mylar	0.047 μF	"
C31,32,73,99	QCF11EZ-103	Ceramic	0.01 μF	25 V
C34	QET41AR-476	Electrolytic	47 μF	10 V
C35	QCS11HJ-101	Ceramic	100 pF	50 V
C36,010,027	QFM41HM-333	Mylar	0.033 μF	"
C37	QCS11HJ-361	Ceramic	360 pF	"
C38	QET41AR-227	Electrolytic	220 μF	10 V
C39,005	QET41CR-106	"	10 μF	16 V
C40	QFS21HJ-391	Polystyrol	390 pF	"
C41	QEW21EA-475	Electrolytic	4.7 μF	25 V
C42	QEC41HM-474	"	0.47 μF	50 V
C43	" -224	"	0.22 μF	"
C44,008	QET41HR105	Mylar	1 μF	"
C46,47,78,79,80	QFM41HM-682	"	6800 pF	"
C5O,51	QCY41HK-152	Ceramic	1500 pF	"
C52,53	′′ -682	"	6800 pF	"
C54,55	′′ -822	"	8200 pF	"
C56,63	QCS11HJ-220	"	22 pF	"
C57,60,83	′′ -270	"	27 pF	"
C58,86,90,98	′′ -120	"	12 pF	"
C61	′′ -200	"	20 pF	"
C62	۰۰ -7R0	"	7 pF	"
C64,65,66,67,68,69	QAT2002-001	Trimmer	, .	
70,71				
C72,74,75,76	QCY41HK-222	Ceramic	2200 pF	50 V
C77	QET41ER-475	Electrolytic	4.7 μF	"
C81	QCY41HK-472	Ceramic	4700 pF	"

Capacitors

Ref. No.	Parts No.	Parts Name	Desc	ription
C82	QFS41HJ-182	Polystyrol	1800 pF	50V
C84	QCS11HJ-390	Ceramic	39 pF	"
C85	QFS41HJ-182	Polystyrol	1800 pF	"
C87	" -392	"	3900 pF	"
C88,029	QCS11HJ-3R0	Ceramic	3 pF	"
C89	QCT05CH-150	"	15 pF	"
C92	QCY41EK-103	"	0.01 μF	25V
C94	QFS41HJ-361	Polystyrol	360 pF	50V
C97	QAT5001-201	Midget Variable		
C001	QCF11HP-104	Ceramic	0.1 μF	"
C002	QET41HR-335	Electrolytic	3.3 μF	"
C009,011,037	" -107	"	100 μF	"
C012	QET41AR-477	"	470 μF	10V
C020,021	QCS11HJ-2R0	Ceramic	2 pF	50V
C028	" -151	"	150 pF	"
C039	″ -330	"	33 pF	"

Others

Ref. No.	Parts No.	Parts Name	Description
B.P.F.	VBP3M4E-001	Band Pass Filter	FM Antenna
CF1,2	V03059-016	Ceramic Filter	FM I.F.
C.R.B.	03126-15	CR Block	includes R65,C006,007
L1	VQF1B12-001	Coil	FM RF
L2	03226-1K	Inductor	FM IF Trap
L4	V03105-029	Coil	FM Osc.
L6,7	VQP0002-393	Inductor	
L8,9	VQB016B-302	Bar Antenna	
L10	VQR1001-306	Coil	SW1 Antenna
L11	VQR1001-202	"	SW3 Antenna
L12	" -207	"	SW2 Antenna
L13	VQM1T03-301	"	MW Osc.
L14	46923-42	"	LW Osc.
L15,16	03160-74	"	SW1,2
L17	VQS1S02-302	"	SW3 Osc.
L21	03226-024	Inductor	
T1,2	V03068-7	I.F.T.	FM
T3	VQT7A11-301	"	AM
T4,5,C F3	V03067-026	"	AM
S1~6	QSP0261-007	Push Switch	BAND
T. Pin	A74138-2	Test Pin	
T.P.	V04041-1	Test Point	
5-P	QMC0529-001	Plug Ass'y	5-pin
3-P	QMC0329-001	, , ,	3-pin
P. Pin	VMZ0005-001	Post Pin	

Volume Circuit Board Ass'y

Resistors

Ref. No.	Parts No.	Parts Name	Des	scription
R701, 801	QRD141J-392S	Carbon	3.9 kΩ	1/4 W
R702, 802	" -822S	"	8.2 k Ω	"
R703, 803	" -472S	"	$4.7 \text{ k}\Omega$	11.
R704, 804	" -562S	"	$5.6~\mathrm{k}\Omega$	"
R705, 805	" -561S	"	560 Ω	"
R706, 707, 806, 807	" -473S	"	47 kΩ	"
VR561, 562	QVR2A6A-115	Variable (Slide)	100 kΩ	A-Curve
VR701, 801	QVR0A6A-054	(")	$50\mathrm{k}\Omega$	"
VR702, 802	QVR0A6B-554	" (")	50 kΩ	B-Curve

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C702, 802	QFM41HK-473	Mylar	0.047 μF 50 V
C703, 803	′′ -104	"	0.1 μF "
C704, 804	" -153	"	0.015 μF "
C705, 805	QCY41HK-332	Ceramic	3300 pF "

Others

Ref. No.	Parts No.	Parts Name	Description
CN561-P	QMV5004-009	Connector	9-pin

Switch Circuit Board Ass'y

Resistors

Ref. No.	Parts No.	Parts Name	Description
R551	QRD141J-564S	Carbon	560 kΩ 1/4 W
R771, 871	" -273S	"	27 kΩ "
R772, 872	" -222S	"	2.2 kΩ "

Capacitors

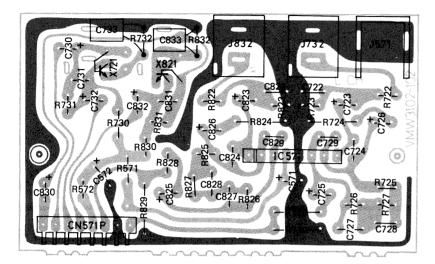
Ref. No.	Parts No.	Parts Name	Desc	ription
C772,872	QCY41HK-102	Ceramic	1000 pF	50 V
C771, 871	QEB41HM-224	Electrolytic	0.22 μF	"

Others

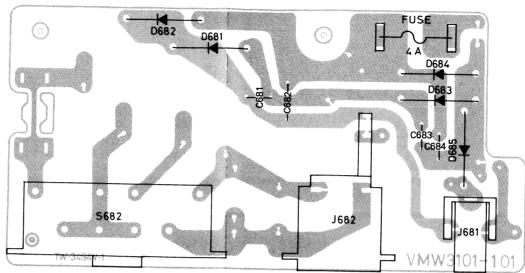
Ref. No.	Parts No.	Parts Name	Description
S551	QSS4201-043	Slide Switch	AUTO-MANU
S552	QSS2201-002	"	LOUDNESS
CN551-P	QMV5004-005	Connector	5-pin

Circuit Board Assemblies(Power Supply, Jack, Auto-Stop, MMS Switch, MMS LED, Metal LED and Stereo LED, Motor)

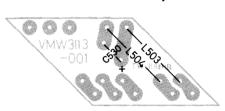
Jack Circuit Board Ass'y

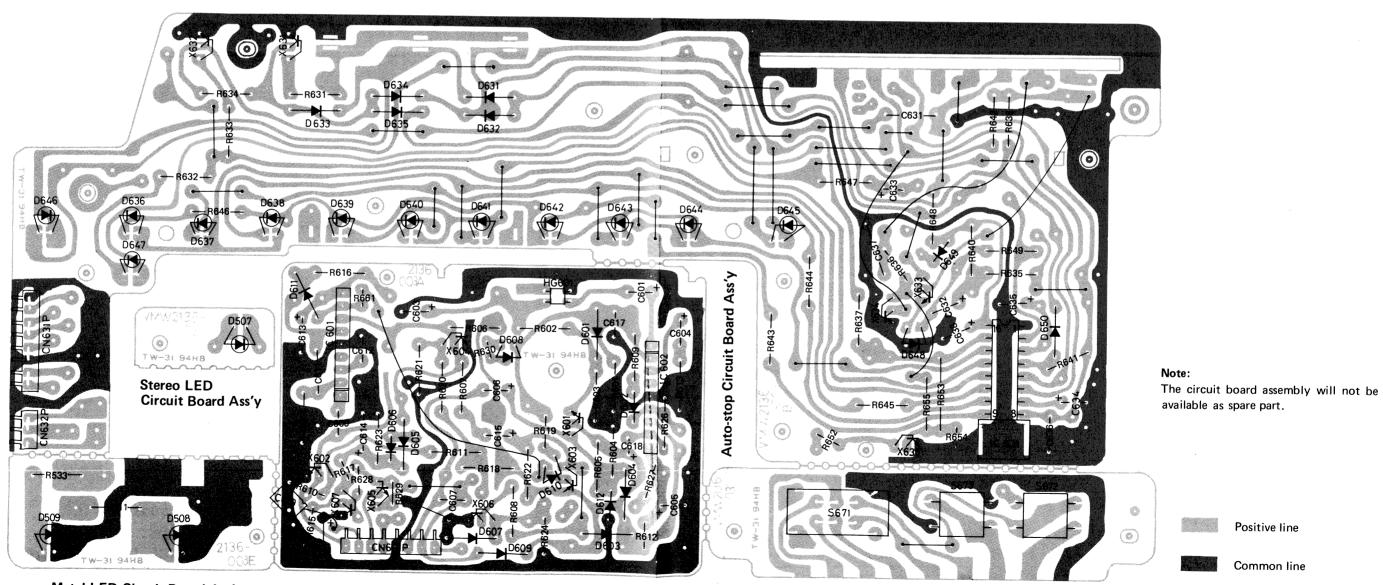


Power Supply Circuit Board Ass'y



Motor Circuit Board Ass'y





Metal LED Circuit Board Ass'y

No. 1408

MMS Switch Circuit Board Ass'y

Common line

Diodes

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
D681~685	∆ U08B	Silicon Diode	HITACHI

Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C681~684	△ QCF11EZ-103	Ceramic	0.01 μF 25 V	

Others

Ref. No.	Parts No.	Parts Name	Description
J681	△ QMA1221-004	Ext. DC Jack Ass'y	DC 15 V
J682, S681	⚠ QMC0263-002	AC Socket Ass'y	AC 110/220/240 V
	△*QMF51A2-4R0	Fuse	T4A
S682	△ QSS2325-107	Slide Switch	

Jack Circuit Board Ass'y

Transistors

Ref. No.	Parts No.	Parts Name	Description
X721,821	2SD636(R)	Silicon (MATSUSHITA)	0.4W

IC

Ref. No.	Parts No.	Parts Name	Description
IC571	LA3160 (or BA328)	Integrated Circuit	SANYO (TOYO DENGU)

Resistors

Ref. No.	Parts No. Parts Name	Parts Name Description		ription
R571	QRD143J-102S	Carbon	1 kΩ	1/4 W
R572	" -470S	"	47 Ω	"
R722, 822	" -182S	"	1.8 kΩ	"
R723, 823	" -473S	"	47 kΩ	"
R724, 824	QRD141J-561S	"	560 Ω	"
R725, 825	QRD143J-102S	"	1 kΩ	"
R726, 826	" -124S	"	120 kΩ	"
R727, 827	" -103S	"	10 kΩ	"
R728, 828	QRD141J-103S	"	10 kΩ	"
R729, 829	" -223S	"	22 kΩ	"
R730, 830	QRD143J-332S	"	3.3 kΩ	"
R731, 831	" -824S	"	820 kΩ	"
R732, 832	" -152S	"	1.5 k Ω	"

Capacitors

Ref. No.	Parts No.	Parts Name	Desc	ription
C571, 572	QET41CR-476	Electrolytic	47 μF	16 V
C722, 822	QCS11HJ-501	Ceramic	500 pF	50 V
C723, 725, 823, 825	QET41CR-106	Electrolytic	10 μF	16 V
C724, 824	QCF11HP-102	Ceramic	1000 pF	50 V
C726, 826	QET41AR-476	Electrolytic	47 μF	10 V
C727, 827	QFM41HJ-273	Mylar	0.027 μF	50 V
C728, 828	" -822	· "	8200 pF	"
C729, 829	QCS11HK-470	Ceramic	47 pF	"
C730, 732, 830, 832	QET41HR-335	Electrolytic	3.3 μF	"
C731, 831	QCS11HJ-220	Ceramic	22 pF	"
C733, 833	QFM41HJ-472	Mylar	4700 pF	, ,,

Others

Ref. No.	Parts No.	Parts Name	Description
J571	VMZ0001-001	Terminal	Ground
J732	VMC0002-002	Jack Ass'y	PHONO (L)
J832	VMC0002-001	"	PHONO (R)
CN571-P	QMV5004-008	Connector	8-pin

Auto Stop Circuit Board Ass'y

Transistors

Ref. No.	Parts No.	Parts Name	Pc	fT
X601	2SD468(C)	Silicon (HITACHI)	0.9 W	190 MHz
X602, 604, 606, 607	2SD636(R)	" (MATSUSHITA)	0.4 W	
X603, 605	*2SA786(P,Q)	" (TOYO DENGU)	0.15 W	180 MHz

IC & Diodes

Ref. No.	Ref. No. Parts No. Parts Name		Description
IC601, 602 D601~608, 610, 611 D609, 612	BA335 1S2473 1OE1	Integrated Circuit Silicon Diode	TOYO DENGU HITACHI J.I.R.C.

Resistors

Ref. No.	Parts No.	Parts Name	Desc	cription
R 601, 614	QRD141J-474S	Carbon	470 kΩ	1/4 W
R602	" -471S	"	470 Ω	"
R 6 03, 605, 616,	" -103S	"	10 kΩ	"
622, 623			į.	
R 604	" -123S	"	12 kΩ	"
R 606, 607, 608	" -272S	"	2.7 kΩ	"
R 609, 613, 618	" -102S	"	1 kΩ	"
R610	QRD143J-393S	"	39 k Ω	"
R 6 11	QRD141J-473S	"	47 kΩ	"
R 6 12	QRD143J-221S	"	220 Ω	"
R 6 15	" -333S	"	33 kΩ	"
R617, 628, 629	" -104S	"	100 kΩ	"
R 6 19	" -101S	"	100 Ω	"
R 6 20	QRD143J-393S	"	39 kΩ	"
R621	QRD141J-223S	"	22 kΩ	"
R 624	QRD143J-334S	"	330 kΩ	"
R 6 26	QRD141J-104S	"	100 kΩ	"
R 6 27	QRD143J-100S	"	10 Ω	"
R 6 30	" -102S	"	1 kΩ	"
R 6 61	" -333S	"	33 kΩ	"

Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C601	QET41HR-335	Electrolytic	3.3 μF	50 V
C603	QET41CR-477	"	470 µF	16 V
C604	" -336	"	33 μF	"
C605, 606	" -227	"	220 μF	"
C607	QCF11EZ-223	Ceramic	0.022 μF	25 V
C609	QFM41HK-102	Mylar	1000 pF	50 V
C611	QFM41HJ-104	"	0.1 μF	"
C612	QFM41HM-473	"	0.047 μF	"
C613, 619	QET41CR-107	Electrolytic	100 μF	16 V
C614	" -106	"	10 μF	"
C615	QET41HR-105	"	1 μF	50 V
C617	QCF11EZ-103	Ceramic	0.01 μF	25 V
C618	QET41HR-474	Electrolytic	0.47 μF	50 V

Others

Ref. No.	Parts No.	Parts Name	Description
HG 601	VHE610G	Hall Element	JVC
CN 601-P	QMV5005-008	Connector	8-pin

MMS Switch Circuit Board Ass'y

Ref. No.	Parts No.	Parts Name	Description
S671	*QSS2201-002	Slide Switch	SCAN
S672, 673	QSP0022-001	Touch Switch	PROGRAM-CLEAR

MMS LED Circuit Board Ass'y

Transistors

Ref. No.	Parts No.	Parts Name	Pc	fT
X631, 632, 634, 635 X633	2SD636(R) 2SD468(C)	Silicon (MATSUSHITA) " (HITACHI)	0.4 W 0.9 W	190 MHz

IC & Diodes

Asterisked parts (*)	show	new	parts
--------------------	----	------	-----	-------

Ref. No.	Parts No.	Parts Name	Description
IC631	*AN6260	Integrated Circuit	MATSUSHITA
D631~ 635, 648~ 650	1S2473	Silicon Diode	HITACHI
D636~ 644	*LN219RP	Light Emitting (LED)	MATSUSHITA
D645, 646	*LN226RP	(")	"
D647	*LN319GP	(")	"

Resistors

Ref. No.	Parts No.	Parts Name	Desc	ription
R631, 634	QRD141J-104S	Carbon	100 kΩ	1/4 W
R632	" -102S	"	1 kΩ	"
R633	" -473S	"	47 kΩ	"
R635	" -221S	"	220 Ω	"
R636, 654	QRD143J-104S	"	100 kΩ	"
R637	QRD141J-331S	"	330 Ω	"
R638, 642, 649	" -103S	"	10 kΩ	. "
R640	" -222S	"	$2.2~\mathrm{k}\Omega$	"
R641	QRD143J-472S	"	4.7 kΩ	"
R643, 644, 645	QRD141J-151S	"	150 Ω	"
R646, 648	" -101S	"	100 Ω	"
R647	" -184S	"	180 kΩ	"
R652	QRD143J-154S	"	150 kΩ	"
R653	QRD141J-154S	"	150 kΩ	"
R655	" -474S	"	470 kΩ	"

Capacitors

Ref. No.	Parts No.	Parts Name	Des	cription
C631	QEN41EA-335N	Electrolytic	3.3 µF	25 V
C632, 638	QET41CR-106	11	10 μF	16 V
C633	QEB41EM-335	"	3.3 μF	25 V
C634	QEE51VM-224	"	0.22 μF	35 V
C635	QET41CR-336	"	33 μF	16 V
C636, 637	QCC11EM-154	Ceramic	0.15 μF	25 V

Others

Ref. No.	Parts No.	Parts Name	Description
CN631-P	QMV5004-008	Connector	8-pin
CN632-P	QMV5004-003		3-pin

METAL LED Circuit Board Ass'y

Diodes

Ref. No.	Parts No.	Parts Name	Description
D508	LN217RP	Light Emitting (LED) " (")	MATSUSHITA
D509	*SLR30UR		"

Resistors

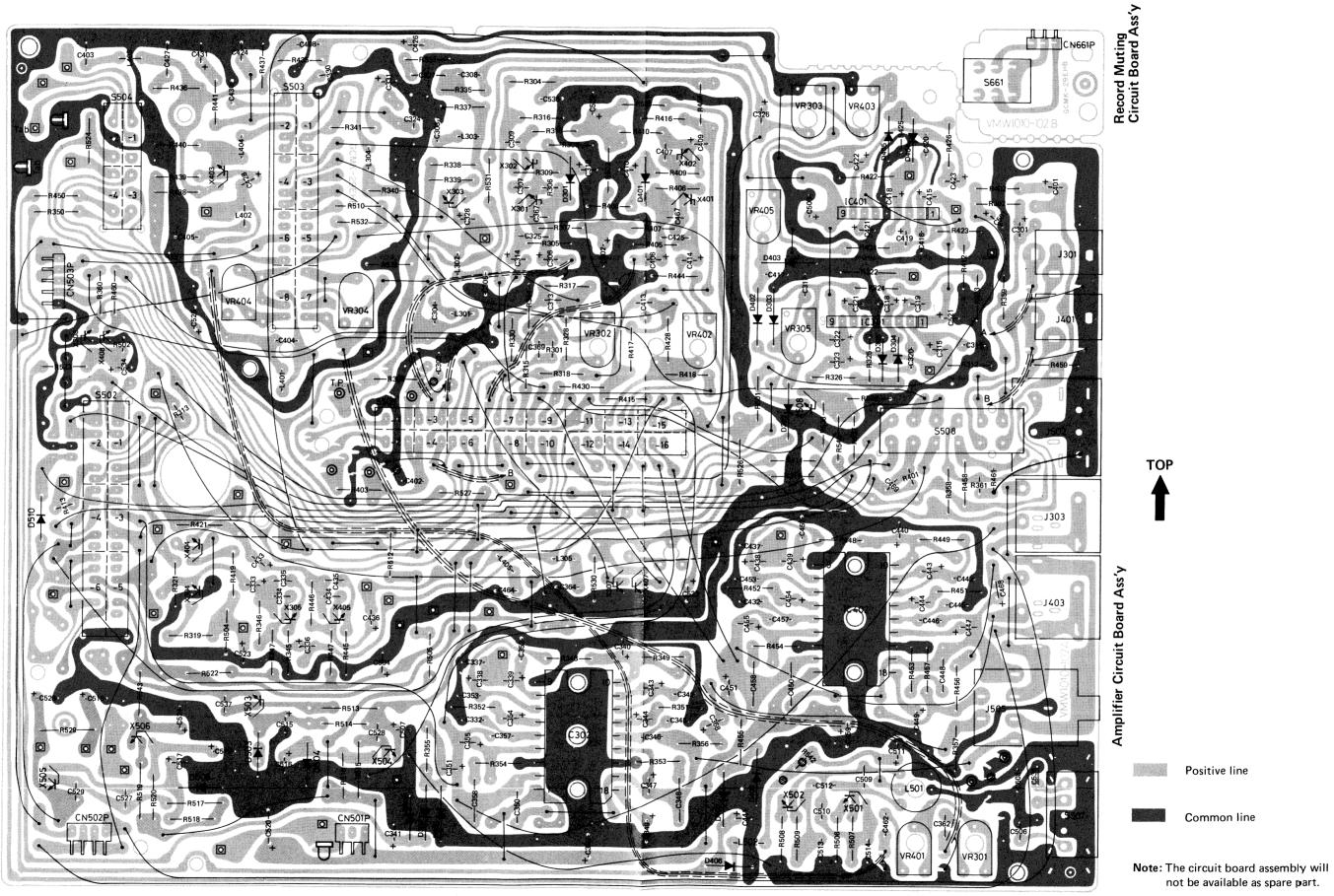
Ref. No.	Parts No.	Parts Name	Des	cription
R511 R533	QRD141J-152S '' -182S	Carbon	1.5 k Ω	1/4 W

Stereo LED Circuit Board Ass'y

Diode

Ref. No.	Parts No.	Parts Name	Description
D507	LN217RP	Light Emitting (LED)	MATSUSHITA

Amplifier and Muting Circuit Board Assemblies



Amplifier Circuit Board Ass'y

Transistors

Ref. No.	Parts No.	Parts Name	Pc	fT
X301, 302, 303, 401, 402, 403	2SD661(S)	Silicon (MATSUSHITA)	0.3 W	
X304, 305, 306, 308, 404, 405, 406, 408,	2SD636(R)	" (")	0.4 W	
503, 506 X307, 407, 501, 502,	2SD468(C)	" (HITACHI)	0.9 W	190 MHz
504, 508 X505	2SD439(E)	" (SANYO)	1 W	150 MHz

IC & Diodes

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
IC301, 401	BA333(V)	Integrated Circuit	TOYO DENGU
IC302, 402	*AN7145K(H)	"	MATSUSHITA
D301, 304, 305, 306,	1S2473	Silicon Diode	HITACHI
401, 404, 405, 406,			
510			
D302, 303, 307, 308,	1N34A	Gelumanium Diode	"
402, 403, 407, 408			
D503	HZ7C	Zener Diode	"
D504	*HZ11B3	"	"
D505	*HZ12B1	"	"

Resistors

Ref. No.	Parts No.	Parts Name	Desc	cription
R301,401	QRD143J-103S	Carbon	10 kΩ	1/4 W
R302,340,402,440,	QRD141J-222SY	"	2.2 kΩ	"
536,539				
R303,403,512,543	" -100SY	"	10 Ω	"
R304,312,337,404	" -104SY	"	100 kΩ	"
412,504				
R305,405,525	QRD141J-471SY	"	470 Ω	1/4 W
R306	QRD143J-684S	"	680 kΩ	"
R307,335,407,435	" -683SY	,,	68 kΩ	"
R308,408	QRD141J-821SY	"	820 Ω	"
R309,357,409,457	" -820SY	,,	82 Ω	"
510				
R310,328,410,428	QRD141J-682SY	"	6.8 kΩ	1/4 W
501				
R311,318,330,341	QRD141J-103SY	"	10 kΩ	1/4 W
359,360,411,418				
430,441,459,460				
526				
R313,413	QRD143J-153S	"	15 kΩ	1/4 W
R315,319,336,348	QRD141J-473SY	,,	47 kΩ	"
349,419,436,448				
449				Approximation of the control of the
R316,321,416,421	QRD141J-223SY	"	22 kΩ	1/4 W
523,538,546				
R317,417	QRD141J-224SY	"	220 kΩ	1/4 W
R322,422	QRD121J-106	"	10 MΩ	1/2 W
R323,351,352,423	QRD141J-221SY	"	220 Ω	1/4 W
451,452				
R324,424	QRD141J-393SY	"	39 kΩ	1/4 W
R325,425	" -123SY	"	1 2 kΩ	"
R326,347,426,447	" -332SY	"	$3.3~\mathrm{k}\Omega$	"
R338,346,406,438 446	" -684SY	"	680 kΩ	"

Resistors

Ref. No.	Parts No.	Parts Name	Des	cription
R339,439	QRD141J-153SY	Carbon	15 kΩ	1/4 W
R344,444	" -330SY	"	330 Ω	,,
R345,356,445,456	" -151SY	"	150 Ω	"
R350,355,450,455	" -102SY	"	1 kΩ	"
R353,354,453,454	" -1R0SY	"	1 Ω	"
R358,458	" -155S	"	1.5 M Ω	"
R361,461	QRD143J-152S	"	1.5 k Ω	"
R415	QRD141J-473S	"	47 kΩ	"
R437	" -104S	"	100 kΩ	"
R502	QRD143J-473S	"	47 kΩ	"
R503,537	QRD141J-562SY	"	5.6 kΩ	"
R505	" -823SY	"	82 kΩ	"
R506,508	" -6R8S	"	6.8 Ω	"
R507,509	" -393S	"	39 k Ω	"
R513,519	QRH141J-100	Fusible	10 Ω	"
R514,518	QRD141J-271SY	Carbon	270 Ω	"
R515	QRH141J-2R2	Fusible	2.2 Ω	"
R516	QRD141J-331SY	Carbon	330 Ω	"
R517	QRD141K-2R2	<i>"</i>	2.2 Ω	"
R520	QRD141J-182SY	11	1,8 kΩ	"
R522,531	" -101SY	"	100 Ω	"
R524	" -122S	"	1.2 kΩ	"
R527	" -330S	"	33 Ω	"
R529	QRD121J-1R0	"	1 Ω	1/2 W
R530	QRD141J-183SY	"	18 kΩ	1/4 W
R532	" -180S	"	18 Ω	"
R542	QRD143K-220	"	22 Ω	"
VR301,401	QVP8A0B-054	Variable	50 k Ω	B-Curve
V R302,402	QVP8A0B-032	"	300 Ω	"
VR303,403	" -014	"	10 kΩ	"
VR304,404	" -015	"	100 kΩ	"
VR305,405	" -053	n n	5 kΩ	"

Capacitors

Ref. No.	Parts No.	Parts Name	Desc	ription
C301,,315,323,401	QET41HR-474	Electrolytic	0.47 μF	50 V
415,423				
C302,316,402,416	QCS11HJ-151	Ceramic	150 pF	50 V
C303,403	" -681	"	680 pF	"
C304,325,404,425	" -561	"	560 pF	"
C305,364,405,464	" -331	,,	330 pF	"
C306,406	QET41HR-335	Electrolytic	3.3 μF	"
C307,407	QCS11HK-330	Ceramic	33 pF	"
C308,408	QCS11HJ-301	"	300 pF	"
C309,318,322,409	QET41ER-475	Electrolytic	4.7 μF	25 V
418,422,523				
C310,410	QET41AR-476	"	47 μF	10 V
C313,324,330,413	QFM41HJ-153	Mylar	0.015 μF	50 V
424,430				
C314,340,414,440	QET41AR-107	Electrolytic	100 μF	10 V
501,515,533				
C317,417	QCY41EK-103	Ceramic	0.01 μF	25 V
C319,331,419,431	QET41AR-336	Electrolytic	33 μF	10 V
C320,367,420,467	QCS11HK-470	Ceramic	470 pF	50 V
C321,421	QET41CR-226	Electrolytic	22 μF	16 V
C326,328,333,336	QET41HR-105	"	1 μF	50 V
341,426,428,433				
436,441				

Capacitors

Ref. No.	Parts No.	Parts Name	Desc	ription
C327,427	QFM41HJ-563	Mylar	0.056 μF	50 V
C332,345,432,445	QCS11HK-471	Ceramic	470 pF	"
C334,434	" -220	"	220 pF	"
C335,435	" -101	"	100 pF	"
C337,342,437,442	QCY41HK-681	"	680 pF	"
C338,343,438,443	QEC41HM-224	Electrolytic	0.22 μF	"
C339,439	" -104	" '	0.1 μF	"
C344,351,354,444	QET41CR-106	"	10 μF	16 V
451,454,511,534				
C346,357,446,457	QCS11HK-560	Ceramic	56 pF	50 V
C347,355,447,455	QET41AR-227	Electrolytic	220 μF	10 V
C348,358,448,458	QFM41HK-224	Mylar	0.22 μF	"
C349,359,449,459	QET41ER-477	Electrolytic	470 μF	25 V
519				
C350,450	QFM41HK-104	Mylar	0.1 μF	50 V
C352,452	QCY41HK-102	Ceramic	1000 pF	"
C353,453	QCS11HJ-101	"	100 pF	"
C362,462	QFS32BJ-391	Polystyrol	390 pF	125 V
C368,468	QEB41CM-685	Electrolytic	6.8 μF	16 V
C369,469	QCY41HK-272	Ceramic	2700 pF	50 V
C502,503,518	QET41CR-477	Electrolytic	470 μF	16 V
C504,521,522,525	" -227	"	220 μF	"
C506,535	QCY41HK-222	Ceramic	2200 pF	50 V
C507,516,517,526	QET41CR-107	Electrolytic	107 μF	16 V
C508	QFP32AJ-183L	Polypropylene	0.018 μF	100 V
C509	" -223L	"	0.022 μF	"
C510,512	QFM41HJ-332	Mylar	3300 pF	50 V
C513,514	" -223	"	0.022 μF	"
C520	QET41ER-228	Electrolytic	2200 pF	25 V
C524	QET41ER-227	"	220 μF	25 V
C527,528,529	QCC11EM-223	Ceramic	0.022 μF	"
C536	QFM42AK-822	Mylar	8200 pF	100 V
C537	QCF11EZ-473	Ceramic	0.047 μF	25V

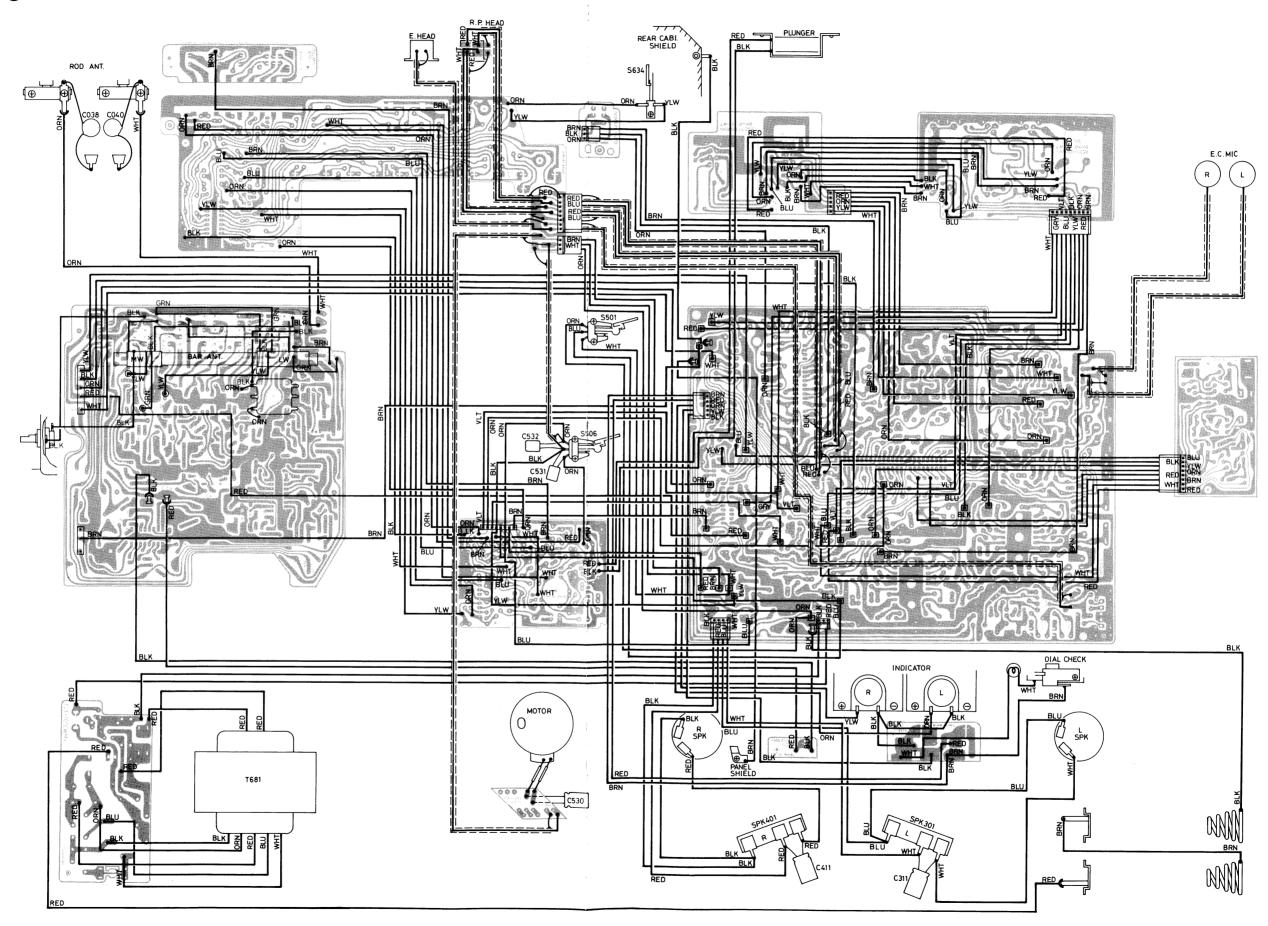
Others

Ref. No.	Parts No.	Parts Name	Description
L301, 303, 401, 403	VQP0002-103	Inductor	
L302, 305, 402, 405	VQP0001-183S	"	
L304, 404	VQP0001-562	"	
L501	VQH1009-005	Coil	Osc.
L502	03226-2K	Inductor	
S502-1~6	QSS6401-101	Slide Switch	FUNCTION
S503-1~8	QSS8301-001	"	TAPE SELECT
S504-1 ~ 4	QSS4201-043	"	MODE/METER
S505-1~16	*QSSG201-101	"	REC-PLAY
S507	QSS1301-021	"	BEAT CUT
J301, 401	QMS3501-014	Jack Ass'y	MIC
J303, 4 03	QMC0289-003	"	DIN SPKR
J502	QMC9014-006	"	DIN
J505	QMS6312-004	"	Headphones
CN2	QMC0359-001	Plug Ass'y	3-pin
CN1	QMC0559-001	"	5-pin
T. Pin	A74138-2	Test Pin	
Tab	V43895-1	Tab	
"	E43727-002	"	
CN501-P	QMV5004-003	Connector	3-pin
CN502-₽	′′ -004	"	4-pin
CN503-P	′′ -005	"	5-pin

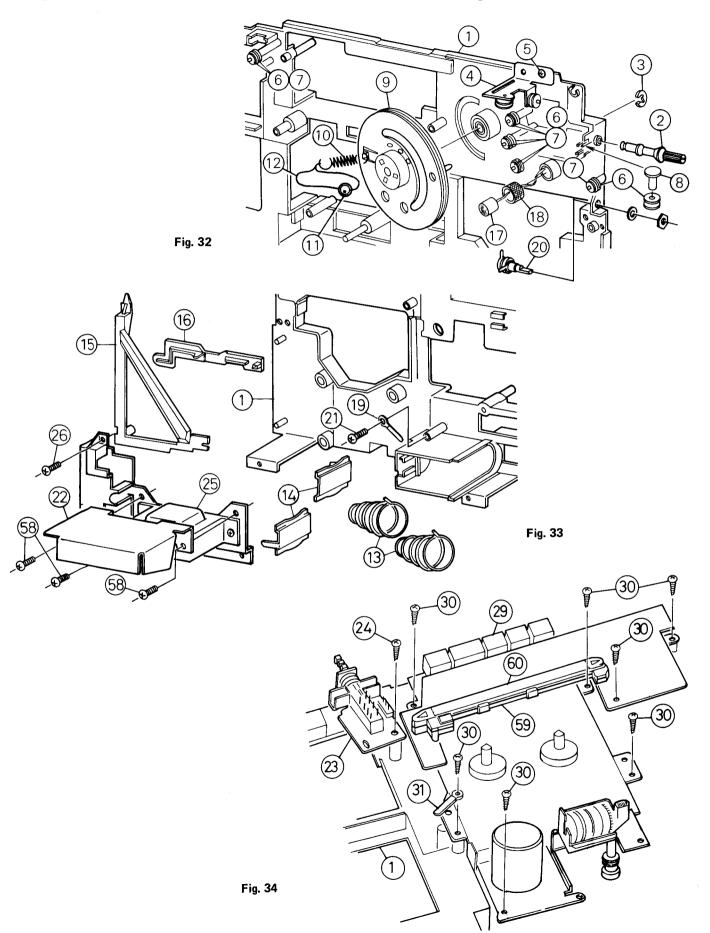
Muting Circuit Board Ass'y

Ref. No.	Parts No.	Parts Name	Description
S661	QSP0219-003	Push Switch	REC MUTE
CN661-P	QMV5004-003	Connector	3-pin

Wiring Connection



Exploded Views of Main Chassis Ass'y



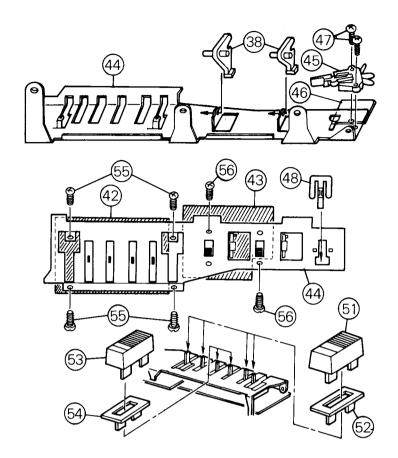
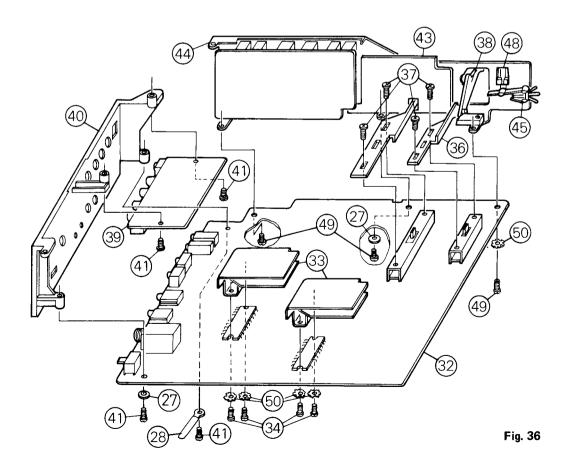


Fig. 35



Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*VYH1114-001	Chassis		1
2	VYH4009-004	Tuning Shaft		1
3	REE3000X	E-ring		1
4	*VYH4402-00A	Roller Ass'y		1
5	SBSB3012Z	Screw		i
6		Roller	P. M. P. M.	<u> </u>
	VYH4032-001			6
7	WNB2600N	Washer		5
8	RTA4012	Rivet		1
9	*VYH3150-001	Drum		1
10	50153-3	Spring		1
11	*VJN4039-002	Needle Holder		1
12	VHR2TK9-05AT	Kevlar cord	ϕ 0.5 x 1,910 mm	1
13	53738-1	Battery Spring		2
14	VYH4016-001	Battery Contact		2
15	*VYH3151-001	Lever	Function Selection	1
16	*VYH3152-001	Slider	1 unction detection	1
17	*VMME62N-029	E, C. Mike	M201 401	-
17	VYH4312-001	Mike Holder	M301, 401	2
				2
19	VKZ4001-007	Wire Holder		1
20	QAT5001-201	Midget Variable Capacitor	C97	1
21	SBSB3010Z	Screw		1
22	*VYH3169-001	Shield Plate		1
23	Record Muting Circuit	Board Ass'y		
24	SBSB3010Z	Screw		1
25	Power Supply Section	•		
26	SBSB3014V	Screw		1
27	*Q03095-206	Washer		2
28	VKZ4001-010	Wire Holder		1
				ı
29	Cassette Mechanism Se			
30	SBSB3012C	Screw		7
31	VKZ4001-007	Wire Holder		1
32	Amp. Circuit Board A	ss'y		
33	*VYH4411-001	Heat Sink		2
34	SPSP3012ZS	Screw		4
35	*VYH4412-001	Slider		1
36	*VYH4413-001	"		1
37	V42583-1	Stud		4
38	*VYH4414-002	Lever	Tono Colortion Made Colortion	2
39			Tape Selection, Mode Selection	2
	Jack Circuit Board Ass	•		
40	*VJD3208-001	Jack Board		1
41	SBSB3012Z	Screw		4
42	Volume Circuit Board	· · · · · · · · · · · · · · · · · · ·		
43	Switch Circuit Board	\ss'y		
44	*VYH3156-002	Bracket		1
45	V44737-001	Skeleton Switch	S506 SLEEP	1
46	*VYH4466-001	Spacer		1
47	SPSP2010Z	Screw		2
48	*VYH4410-001	Slider	}	1
49	SPSP3006ZS	Screw		3
49 50	1	Toothed Lock Washer		
	WBS3000N		VOLUME 050 (5:55	5
51	*VXS4027-002	Knob	VOLUME, REC LEVEL	4
52	*VYH4445-001	Spacer		4
53	*VXS4028-002	Knob	BASS, TREBLE	2
54	*VYH4446-001	Spacer		2
55	SPSP2004Z	Screw		4
56	SPSP2604Z	"		2
57			Blank No.	_
58	SBSB4012C	Screw	5.4	2
			1	3
59 60	*VYH3155-001	LED Holder (A)		1
60	*VYH3160-001	" (B)		1

Exploded Views of Amplifier Chassis Ass'y

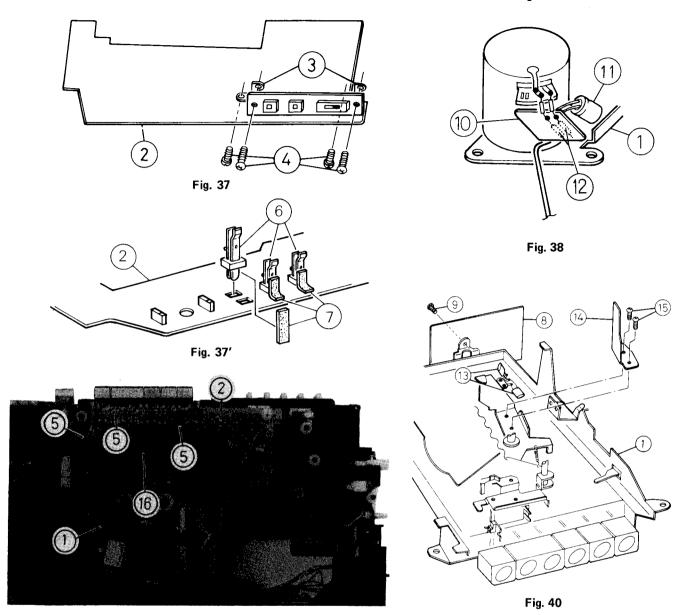


Fig. 39

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	Cassette Mechanism			
2	MMS Circuit Board As	s'y		
3	*VYH4408-002	Bracket		2
4	SPSP3006ZS	Screw		4
5	LPSP2608V	"		3
6	VSH1106-001	Leaf Switch	S631~S633	3
7	VYSH103-027	Spacer		3
8	Auto Stop Circuit Boa	rd Ass'y		ł
9	SPSP2608V	Screw		1
10	Motor Circuit Board A	ss'y		
11	QET41CR-227	Electrolytic Capacitor	C530	1
12	T41572-001	Inductor	L503,504	2
13	QFM41HM-223	Mylar Capacitor	C531, 532	2
14	*VKY4169-002	Recording Spring	. –	1 1
15	LPSP2606Z	Ass'y Screw	·	2
16	Rec/Play Head Circuit	Board Ass'y		

Exploded Views of Front Cabinet (RC-M70L)

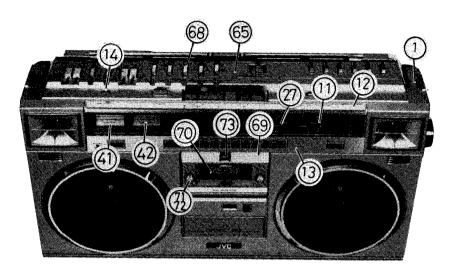


Fig. 41

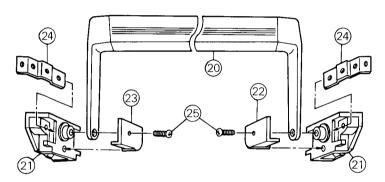


Fig. 42

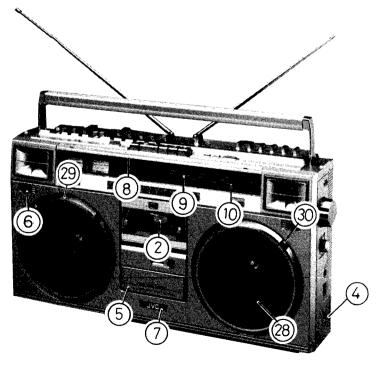


Fig. 43

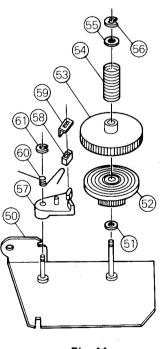


Fig. 44

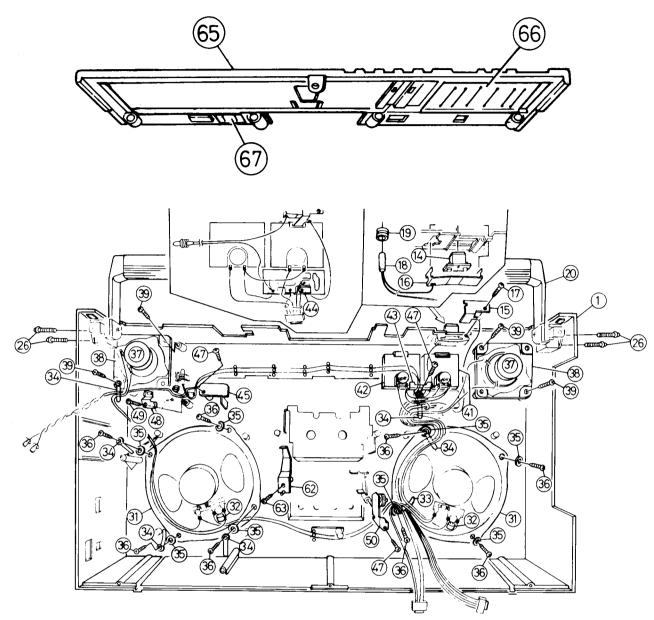


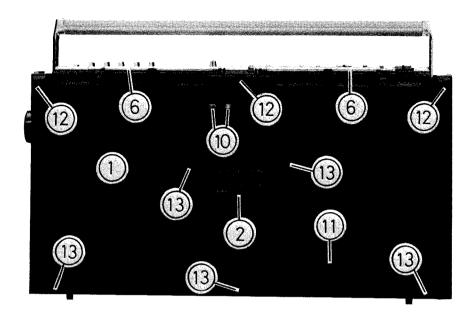
Fig. 45

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1~13	*ZCRCM70L-CBF	Front Cabinet Ass'y		1
1	*VJC1084-003	Front Cabinet		1
2	VJD4005-002	Reflection Plate		1
3			Blank No.	
4	*VJD4003-010	Plate	Glued	1
5	*VJD4338-001	Feature Plate	"	1
6	*VJD4323-001	Microphone Plate	"	2
7	QXM2251-001	Mark	"	1
8	*VJK3137-001	Scale Plate	"	1
9	*VJK3138-001	Dial Back	"	1
10	*VJK2124-003	Dial Scale	"	1
11	*VJK3140-002	Dial Lens	"	1
12	*VJD3196-004	MMS Plate	"	1
13	*VJD3197-004	LED Plate	"	
14	*VXP4052-001	Check Light Knob		1

Ref. No.	Parts No.	Parts Name	Description	Qʻty
15	*VYH4394-001	Contact		1
16	*VYH4395-001	Spring		1
17	SBSB3010Z	Screw		1
18	QLP3101-334	Lamp	PL501	1
19	53492-002	Rubber Bushing		1
20	*VJH3005-00K	Handle Ass'y		1
21	*V31131-003	Supporter		2
22	V44943-001	Washer (L)		1
23	V44944-001	" (R)		1
24	V44883-001	Bracket		2
25	SPSP3014ZS	Screw		2
26	SDSP3018RS	"		4
27	*VJN4038-001	Needle		1
28	*VJD3198-001	Speaker Net		2
29	*VJD3199-001	Speaker Ring	1	2
30	VJD4008-001	Special Screw		8
31	*EAS16P182S	Speaker	SPK301, 401	2
32	QEN41EM-335	Electrolytic Capacitor	C311, 411	2
33	VKZ4001-010	Wire Holder		1
34	VKZ4001-017	"		6
35	Q03091-105	Washer		8
36	SBSB3010Z	Screw		8
30 37	*EAS5PH01SC	Tweeter		2
38	*VYH4396-001	Tweeter Holder		2
		Screw		4
39	SBSB3014Z	Screw	Blank No.	
40	*\/CM0220.006	Indicator	Battery (L) IND301	1
41	*VGM0320-006	malcator "	Tuning (R) IND401	1
42	*VGM0320-005	Meter Holder	Tulling (II) IND 401	1
43	*VYH4397-001		Metal, Power	'
44	LED Circuit Board Ass		FM stereo	-
45	LED Circuit Board Ass	y 	Blank No.	
46	000000107	Caratt	Blatik NO.	2
47	SBSB3012Z	Screw		1
48	V44981-001	Grounding Catcher		1
49	SBSB3010Z	Screw		1
50	*VYH4399-00B	Gear Frame Ass'y		1
51	Q03093-524	Washer		
52	VKS4108-003	Spur Gear		1 1
53	VKS4109-004	Brake Drum		
54	VKW3001-006	Spring		1
55	WNS2600Z	Washer		1
56	REE2000X	E-ring		
57	VKS4110-002	Brake Arm		1
58	VKZ4111-001	Rubber Tire		1
_59	VKL4271-001	Rubber Holder		1
60	VKW4106-001	Torsion Spring		1
61	REE2000X	E-ring		1
62	*VKY4167-003	Door Spring		1
63	SBSB 3012Z	Screw		1
65 ~ 67	*ZCRCM70L-TPA	Top Panel Ass'y		1
65	*VJC1088-005	Top Panel		1
66	*VYTA444-001	Blind	Glued	1
67	*VYTA422-001	Dust Pad	"	1
68	*VXS4026-001	Slide Knob		6
69	*VJT3044-00A	Cassette Door Ass'y		1_1_
	*VJT3045-001	Lens		1
70	10.0070001	1		2
70 71	003093-502	Washer		
70 71 72	Q03093-502 TJA345525-01	Washer Special Screw		2

Exploded Views of Rear Cabinet (RC-M70L)



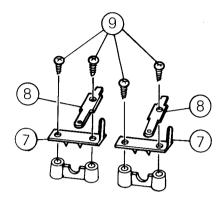


Fig. 48

Fig. 46

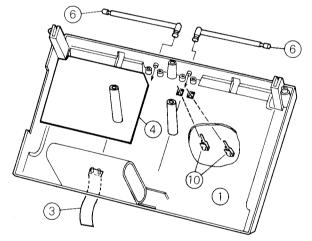


Fig. 47

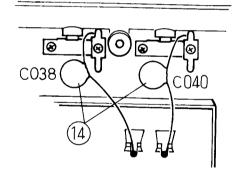
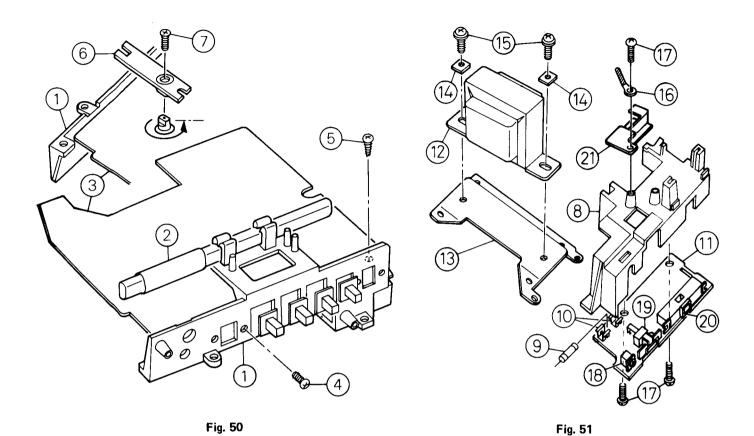


Fig. 49

Asterisked parts (*) show new parts.

Ref. No	Parts No.	Parts Name	Description	Q'ty
1~5	*ZCRCM70L-CBR	Rear Cabinet Ass'y		1
1	*VJC1085-003	Rear Cabinet		1
2	*VYN5058-008C	Name Plate		
3	*V41583-008	Таре		
4	*VYH4473-00A	Shield Plate Ass'y		1 1
5			Blank No.	'
6	QZR4147-001U	Rod Antenna	Diame 140.	2
7	VYH4189-001	Rod Antenna Holder		2
8	V41208-003	Tab		2
9	SBSF3008Z	Screw		4
10	V44814-00B	Terminal Ass'y	Ext. Antenna	2
11	*ZCRCM70L-BCA	Battery Cover Ass'y	ZAC. / (Itelling	1
12	SDSP3012RS	Screw	For Mounting Rear Cabinet	
13	SBSF3040R	"	" or mounting freat Cabiliet	5
14	QCS11HJ-220	Ceramic Capacitor	C038,040	2

Exploded Views of Tuner Chassis Ass'y and Power Supply Ass'y (RC-M70L)



Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	VYH2107-001	Bar Antenna Holder		1
2	VQB016B-302	Bar Antenna	L8, 9	'1
3			LO, 9	'
	Tuner Circuit Board A	· ·		
4	SPSP3006ZS	Screw		
5	SBSB3012Z	"		1
6	*VYH4407-001	Arm		1
7	SSSP2610Z	Screw		1
8	*VYH3154-001	AC Holder		1
9	△ *QMF51A2-4R0	Fuse	T4 A	1
10	A44594-001	Fuse Clip		1
11	A Power Supply Circui	t Board Ass'y		
12	▲*VTP66N2-15B	Power Transformer	T681	1
13	*VYH4406-001	Transformer Bracket		1
14	F4932-002	Special Washer		2
15	LPSP4008ZS	Ass'y Screw		2
16	VKZ4001-011	Wire Holder		1
17	SBSB3012Z	Screw		3
18	△ QMA1221-004	Ext. DC Jack Ass'y	J681	1
19	△ QMC0263-002	AC Socket Ass'y	J682, S681	1
20	∆*QSS2325-107	Slide Switch	S682	1
21	*VHY4444-001	Wire Holder		1

Final Packing Ass'y (RC-M70L)

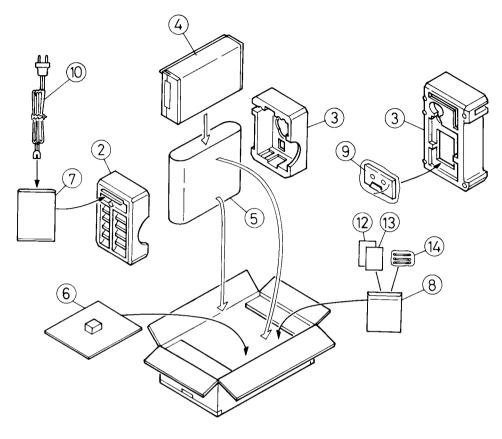


Fig. 52

Asterisked parts (*) show new parts.

Ref. No. Parts No.		Parts Name	Description	Q'ty
1	*VPD5058-J03	Carton Box		1
2	*VPH1180-001	Side Cushion	Left	
3	*VPH1181-001	"	Right	
4	VHPJ109-039	Wrapping Paper	riigitt	
5	QPGA070-07505	Polyethylene Bag		1
6	VPK4135-00A	Cushion Ass'y		+ +
7	QPGA012-02505	Polyethylene Bag	for Power Cord	
8	QPGB024-03404	, ,, ,	for Instruction Book	

Accessories (RC-M70L)

Asterisked parts (*) slow new parts.

Ref. No.	No. Parts No. Parts Name		Description	Q'ty	
9	*VGT12M2-J02	Cassette Tape		1	
10		Power Cord	ļ	1	
11			Blank No.		
12	*VNM0761-301	Instruction Book	Blank 140.	1	
13	VNC6305-001	Troubleshooting Chart		1	
14	VYA4001-00A	Head Cleaning Stick		1	
15	VNF0757-001	Feature Sticker	Glued on Cassette Door	1	
16	VND4030-002	Caution Label	Glued on Top Panel	1	

Exploded Views of Front Cabinet (RC-M70LB)

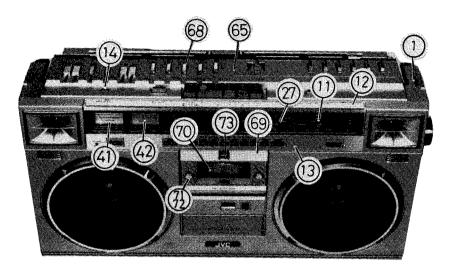


Fig. 53

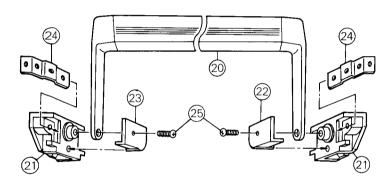


Fig. 54

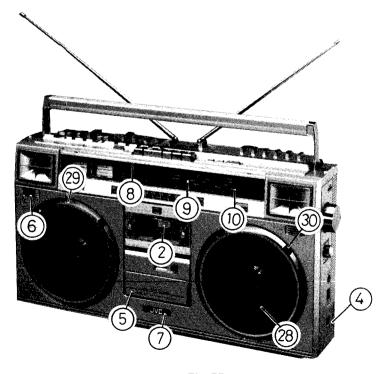


Fig. 55

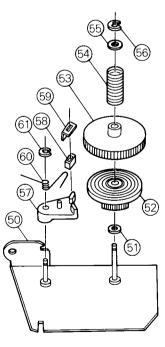


Fig. 56

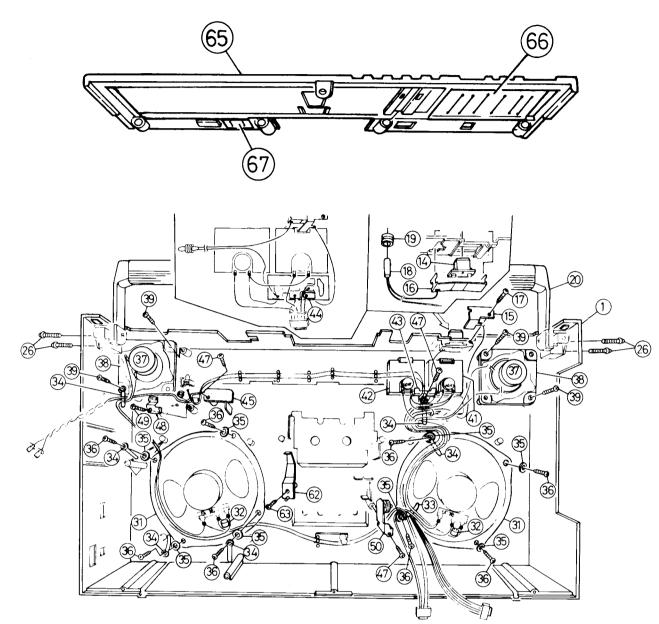


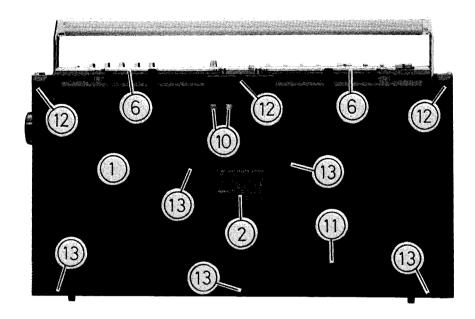
Fig. 57

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1 ~ 13	*ZCRCM70LB-CBF	Front Cabinet Ass'y		1
1	*VJC1084-003	Front Cabinet		1
2	VJD4005-002	Reflection Plate		1
3			Blank No.	1
4	*VJD4003-010	Plate	Glued	1
5	*VJD4338-001	Feature Plate	"	1
6	*VJD4323-001	Microphone Plate	"	2
7	QXM2251-001	Mark	"	1
8	*VJK3137-001	Scale Plate	"	1
9	*VJK3138-001	Dial Back	"	1
10	*VJK2124-003	Dial Scale	"	~ <u>†</u>
11	*VJK3140-002	Dial Lens	"	1
12	*VJD3196-004	MMS Plate	"	1
13	*VJD3197-004	LED Plate	"	
14	*VXP4052-001	Check Light Knob		1

Ref. No.	Parts No.	Parts Name	Description	Q'ty
15	*VYH4394-001	Contact		1
16	*VYH4395-001	Spring		1
17	SBSB3010Z	Screw		1
18	QLP3101-334	Lamp	PL501	1
19	53492-002	Rubber Bushing		1
20	*VJH3005-00K	Handle Ass'y		1
21	*V31131-003	Supporter		2
22	V44943-001	Washer (L)		1
23	V44944-001	" (R)		1
24	V44883-001	Bracket		2
25	SPSP3014ZS	Screw		2
26	SDSP3018RS	"		4
27	*VJN4038-001	Needle		1
28	*VJD3198-001	Speaker Net		2
29	*VJD3199-001	Speaker Ring		2
30	VJD4008-001	Special Screw		8
31	*EAS16P182S	Speaker	SPK301, 401	2
32	QEN41EM-335	Electrolytic Capacitor	C311, 411	2
32 33	VKZ4001-010	Wire Holder	3311, 111	1
33 34	VKZ4001-010 VKZ4001-007	Wife Holder		6
35	Q03091-105	Washer		8
	(Screw		8
36	SBSB3010Z	Tweeter		2
37	*EAS5PH01SC			2
38	*VYH4396-001	Tweeter Holder		4
39	SBSB3014Z	Screw	Blank No.	4
40	*: / -: / -: -: -: -: -: -: -: -: -: -: -: -: -:			
41	*VGM0320-006	Indicator	Battery (L) IND301	1
42	*VGM0320-005		Tuning (R) IND401	1
43	*VYH4397-001	Meter Holder	Matal Davies	1
44	LED Circuit Board Ass'		Metal, Power	
45	LED Circuit Board Ass'	у	FM stereo	
46	0000000		Blank No.	2
47	SBSB3012Z	Screw		
48	V44981-001	Grounding Catcher		1
49	SBSB3010Z	Screw		1
50	*VYH4399-00B	Gear Frame Ass'y		1
51	Ω03093-524	Washer		1
52	VKS4108-003	Spur Gear		1
53	VKS4109-004	Brake Drum		1
54	VKW3001-006	Spring		11
55	WNS2600Z	Washer		1
56	REE2000X	E-ring		1
57	VKS4110-002	Brake Arm		1
58	VKZ4111-001	Rubber Tire		1
<u>59</u>	VKL4271-001	Rubber Holder		11
60	VKW4106-001	Torsion Spring		1
61	REE2000X	E-ring		1
62	*VKY4167-003	Door Spring		1
63	SBSB3012Z	Screw		1
$65 \sim 67$	*ZCRCM70LB-TPA	Top Panel Ass'y		11
65	*VJC1088-005	Top Panel		1
66	*VYTA444-001	Blind	Glued	1
67	*VYTA422-001	Dust Pad	"	1
68	*VXS4026-001	Slide Knob		6
	*VJT3044-00A	Cassette Door Ass'y		1
69		Lens		1
69 70	*\/ T3045J01			, .
70	*VJT3045-001			2
	003093-502 TJA345525-01	Washer Special Screw		2 2

Exploded Views of Rear Cabinet (RC-M70LB)



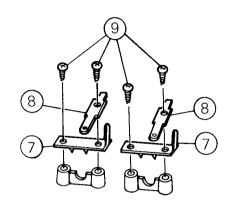


Fig. 60

Fig. 58

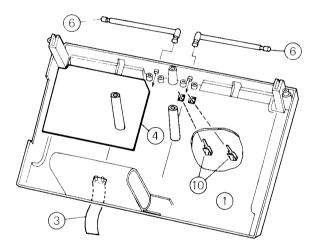


Fig. 59

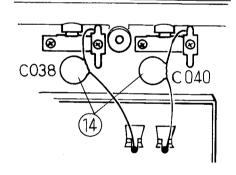
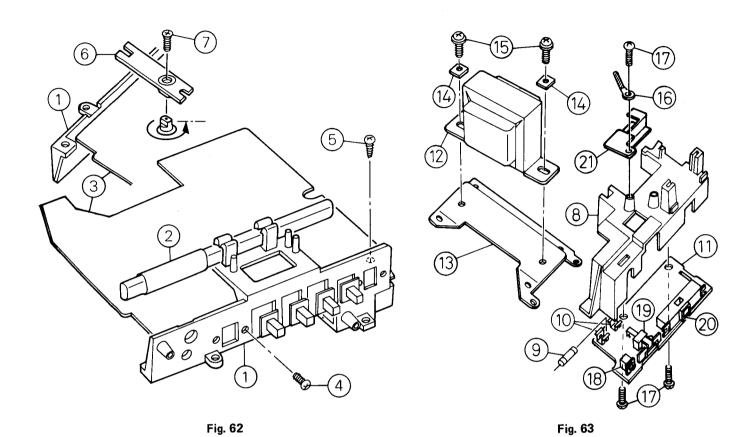


Fig. 61

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1~5	*ZCRCM70LB-CBR	Rear Cabinet Ass'y		
1	*VJC1085-003	Rear Cabinet		1 1
2	*VYN5058-003CBS	Name Plate		i
3	*V41583-008	Tape		1
4	*VYH4473-00A	Shield Plate Ass'y		1 1
5			Blank No.	 -
6	QZR4147-001U	Rod Antenna		2
7	VYH4189-001	Rod Antenna Holder		2
8	V41208-003	Tab		2
9	SBSF3008Z	Screw		4
10	V44814-00B	Terminal Ass'y	Ext. Antenna	2
11	*ZCRCM70LB-BCA	Battery Cover Ass'y		1
12	SDSP3012RS	Screw	For Mounting Rear Cabinet	3
13	SBSF3040R	"	"	5
14	QCS11HJ-220	Ceramic Capacitor	C038.040	2

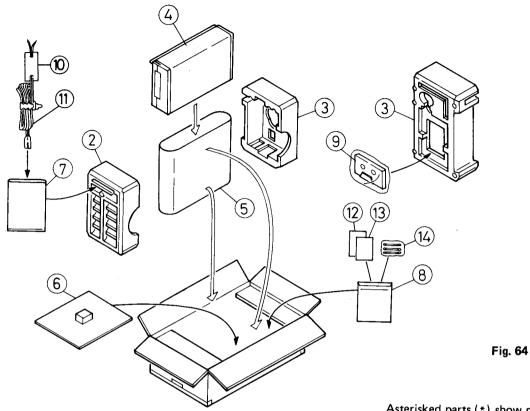
Exploded Views of Tuner Chassis Ass'y and Power Supply Ass'y (RC-M70LB)



Asterisked parts (*) show new parts

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	VYH2107-001	Bar Antenna Holder		1
2	VQB016B-302	Bar Antenna	L8, 9	1
3	Tuner Circuit Board As	s'y		
4	SPSP3006ZS	Screw		1
5	SBSB3012Z	"		1
6	*VYH4407-001	Arm		1
7	SSSP2610Z	Screw		1
8	*VYH3154-001	AC Holder		1
9	△*QMF51A2-4R0BS	Fuse	T4 A	1
10	A44594-001	Fuse Clip		1 1
11	▲ Power Supply Circuit	Board Ass'y		
12	△ *VTP66N2-15BBS	Power Transformer	T681	1
13	*VYH4406-001	Transformer Bracket		1
14	F4932-002	Special Washer		2
15	LPSP4008ZS	Ass'y Screw		2
16	VKZ4001-011	Wire Holder		1
17	SBSB3012Z	Screw		3
18	△ QMA1221-004	Ext. DC Jack Ass'y	J681	1
19	△ QMC0263-002BS	AC Socket Ass'y	J682, S681	1
20	△*QSS2325-107BS	Slide Switch	S682	1
21	*VHY4444-001	Wire Holder		1

Final Packing Ass'y (RC-M70LB)



Asterisked	parts	(*) show	new	narts
, 10tol 131tou	puits	١.	7 3110 44	IICAA	Pai LS

Ref. No.	No. Parts No. Parts Name		Description	Q'ty
1	*VPD5058-J03	Carton Box		1
2	*VPH1180-001	Side Cushion	Left	1
3	*VPH1181-001	"	Right	
4	VHPJ109-039	Wrapping Paper	riigiit	
5	QPGA070-07505	Polyethylene Bag		
6	VPK4135-00A	Cushion Ass'v		
7	QPGA012-02505	Polyethylene Bag	for Power Cord	
8	QPGB024-03404	"	for Instruction Book	

Accessories (RC-M70LB)

Asterisked parts (*) show new parts.

Ref. No. Parts No.		Parts Name Description		Q'ty
9	*VGT12M2-J02	Cassette Tape		
10	△ QZL1002-003BS	Warning Label		1
11	△ QMP9017-009BS	Power Cord		
12	*VNM0761-301	Instruction Book		
13	VNC6305-001	Troubleshooting Chart		1
14	VYA4001-00A	Head Cleaning Stick		
15	VNF0757-001	Feature Sticker	Glund on Connette Danie	
16	VND4030-002	Caution Label	Glued on Cassette Door Glued on Top Panel	1 1



